

# Thomson Reuters KORTES

## PRICING METHODOLOGY RUSSIAN PETROCHEMICALS

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## PRODUCER PRICES PROPYLENE

### Contents

Price assessment of propylene offered by the producers or their parent entities when supplying to the Domestic market.

### Data Sources

Market players of the domestic petrochemical market.

### Market Players

Producers, petrochemical companies, dealers, distributors and traders selling propylene at domestic market.

### Data considered for assessment

Information about the offer prices of propylene provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the propylene offer prices. Actual sales undertaken both by petrochemical companies and petrochemical enterprises themselves and by dealers, distributors and traders on free carrier terms can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly.

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next.

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold.

### Lot Size

Starting from 60 tons (tank car)

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Legend

$\Delta$  - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

t/g - top grade

### Comments

Comments provided if required.

### Groups of Market Products

Propylene

### Product Quality

Producer	Regulatory Documents
Sibur-Kstovo	State Standard (GOST) 25043-87, amendment 1
Angarsk Polymer Plant	GOST 25043-87, amendment 1
Omsky Kautchuk	GOST 25043-87, amendment 1
Kazanorgsintez	GOST 25043-87, amendment 1
Nizhnekamskneftekhim	GOST 25043-87, amendment 1

## PRODUCER PRICES PETROLEUM BENZENE & COAL BENZENE

### Contents

Price assessment for petroleum benzene & coal benzene offered by the producers or their parent entities when supplying to the Domestic market. Prices are published in the Thomson Reuters Information Systems and the "Producer Prices of the Russian Federation. Petroleum benzene & coal benzene" bulletin.

### Data Sources

Market players of the domestic petrochemical market.

### Market Players

Producers, petrochemical companies, dealers, distributors and traders selling benzene at domestic market.

### Data considered for assessment

Information on offers petroleum benzene & coal benzene provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the petroleum benzene & coal benzene offer prices. Actual sales undertaken both by petrochemical companies and petrochemical enterprises themselves and by dealers, distributors and traders on free carrier terms can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly.

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of i's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next.

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold.

### Lot Size

Starting from 60 tons (tank car)

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Legend

$\Delta$  - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

t/g - top grade

### Comments

Comments provided if required.

### Groups of Market Products

petroleum benzene & coal benzene

### Product Quality

Producer	Regulatory Documents
Petroleum Benzene	
Sibur-Kstovo	GOST 9572-93
Uralorgsintez	GOST 9572-93
Ryazanskaya NPK	GOST 9572-93
Angarsk Polymer Plant	GOST 9572-93
Slavneft-Yaroslavnefteorgsintez	GOST 9572-93
Omsky NPZ	GOST 9572-93
Kirishinefteorgsintez	GOST 9572-93
Ufaneftekhim	GOST 9572-93
Coal Benzene	
Magnitogorsk Iron and Steel Works	Specification (TU) 1104-241419-395-167-2001
Coal Benzene for synthesis	
West-Siberian Metallurgical Plant	GOST 8448-78
Severstal	GOST 8448-78
Coal Benzene for nitration	
Novolipetsk Steel	GOST 8448-78
Chelyabinsk Metallurgical Plant	GOST 8448-78



## PRODUCER PRICES ETHYLBENZENE & STYRENE

### Contents

Price assessment for ethylbenzene & styrene offered by the producers or their parent entities when supplying to the Domestic market. Prices are published in the Thomson Reuters Information Systems and the "Producer Prices of the Russian Federation. Ethylbenzene & styrene" bulletin.

### Data Sources

Market players of the domestic petrochemical market

### Market Players

Producers, petrochemical companies, dealers, distributors and traders selling ethylbenzene & styrene at domestic market.

### Data considered for assessment

Information about the offer prices of ethylbenzene & styrene provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the ethylbenzene & styrene offer prices. Actual sales undertaken both by petrochemical companies and petrochemical enterprises themselves and by dealers, distributors and traders on free carrier terms can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly.

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next.

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold.

### Lot Size

Starting from 60 tons (tank car)

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Legend

$\Delta$  - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

t/g - top grade

### Comments

Comments provided if required.

### Groups of Market Products

Ethylbenzene & styrene

### Product Quality

Producer	Regulatory Documents
	Ethylbenzene
Samaraorgsintez	Specification (TU) 38.30225-81
Kazanorgsintez	TU 2415-195-00203335-2010
Ufaorgsintez	TU 38.30225-81 with amendments 1-3
	Styrene
Plastic, Uzlovaya	State Standard (GOST) 10003-90
Sibur-Khimprom	GOST 10003-90
Angarsk Polymer Plant	GOST 10003-90
Nizhnekamskneftekhim	GOST 10003-90
Gazprom neftekhim Salavat	GOST 10003-90



## PRODUCER PRICES PHENOL, ACETONE, ALPHA-METHYLSTYRENE

### Contents

Price assessment for phenol, acetone, alpha-methylstyrene offered by the producers or their parent entities when supplying to the Domestic market. Prices are published in the Thomson Reuters Information Systems and the "Producer Prices of the Russian Federation. Phenol, acetone, alpha-methylstyrene" bulletin.

### Data Sources

Market players of the domestic petrochemical market

### Market Players

Producers, petrochemical companies, dealers, distributors and traders selling phenol, acetone, alpha-methylstyrene at domestic market.

### Data considered for assessment

Information about the offer prices of phenol, acetone, alpha-methylstyrene provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the phenol, acetone, alpha-methylstyrene offer prices. Actual sales undertaken both by petrochemical companies and petrochemical enterprises themselves and by dealers, distributors and traders on free carrier terms can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly

### Relevance

Prices are relevant as of the publication date

### Prices

Prices are given in roubles per ton including VAT

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next.

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold.

### Lot Size

Starting from 60 tons (tank car)

### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Legend

$\Delta$  - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

t/g - top grade

g. - grade

s. - sort

fr. - fraction

### Comments

Comments provided if required.

### Groups of Market Products

Phenol, acetone, alpha-methylstyrene

### Product Quality

Producer	Regulatory Documents
	Phenol
Omsky Kautchuk	State Standard (GOST) 23519-93
Samaraorgsintez	GOST 23519-93
Kazanorgsintez	GOST 23519-93
Ufaorgsintez	GOST 23519-93
	Acetone
Omsky Kautchuk	GOST 2768-84
Samaraorgsintez	GOST 2768-84
Kazanorgsintez	GOST 2768-84/2
Ufaorgsintez	GOST 2768-84 with amendments 1, 2
	alpha-methylstyrene
Samaraorgsintez	Specification (TU) 38.103679-89
Kazanorgsintez	TU 2415-209-00203335-2011
Ufaorgsintez	TU 38.103679-89

## PRODUCER PRICES TOLUENE & XYLENES

### Contents

Price assessment for toluene & xylenes offered by the producers or their parent entities when supplying to the Domestic market. Prices are published in the Thomson Reuters Information Systems and the "Producer Prices of the Russian Federation. Toluene & xylenes" bulletin.

### Data Sources

Market players of the domestic petrochemical market.

### Market Players

Producers, petrochemical companies, dealers, distributors and traders selling toluene & xylenes at domestic market.

### Data considered for assessment

Information about the offer prices of toluene & xylenes provided by producers and other market players.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the toluene & xylenes offer prices. Actual sales undertaken both by petrochemical companies and petrochemical enterprises themselves and by dealers, distributors and traders on free carrier terms can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next.

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold.

### Lot Size

Starting from 60 tons (tank car)

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Legend

$\Delta$  - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

t/g - top grade

g. - grade

### Comments

Comments provided if required.

### Groups of Market Products

Toluene, xylenes

### Product Quality

Producer	Regulatory Documents
Toluene	
LUKOIL-Permnefteorgsintez	State Standard (GOST) 14710-78, amendments 1-6
Slavneft-Yaroslavnefteorgsintez	GOST 14710-78, amendments 1-5
Omsky NPZ	Specification (TU) 38.301-19-97-96, amendments 1-2
Kirishinefteorgsintez	GOST 14710-78, amendments 1-6
o-Xylene	
Omsky NPZ	TU 38.101254-72, amendments 1-9
Kirishinefteorgsintez	TU 38.101254-72E, amendments 1-7
Ufaneftekhim	TU 38.101254-72
p-Xylene	
Omsky NPZ	TU 38.101255-87, amendments 1-
Kirishinefteorgsintez	TU 38.101255-87
Ufaneftekhim	TU 38.101255-87

## PRODUCER PRICES PHTHALIC ANHYDRIDE

### Contents

Price assessments of offer / selling prices of phthalic anhydride, incl.:

- offer prices of producers in CIS region Russia and Belarus
- physical commodity market prices in Russian

### Data Sources

Petrochemical market participants in Russia and Belarus.

### Market Players

Manufactures, petrochemical companies and traders.

### Data considered for assessment

Information from producers and companies trading on wholesale and retail market in Russia.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Data reflects the overall level of phthalic anhydride offer prices. Actual sales undertaken both by petrochemical companies and petrochemical enterprises themselves and by dealers, distributors and traders can be done at higher or lower prices.

Price monitoring involves the maximum possible number of market participants. The price level is determined on the basis of the information received from reliable sources in the market (buyers and sellers). Non-standard transactions and / or bids and offers that deviate significantly from the typical market prices are not included in the evaluation process.

### Frequency of update

On 10th and 25th monthly.

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in Russian roubles per ton including VAT.

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Delivery Basis

FCA - Free Carrier (producer's railway station).

EXW- Ex Works (seller's warehouse)

If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Lot Size

10-50 tons

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Locations

Location of producers from which the products are being sold

Moscow city

### Legend

g. - grade

### Comments

Comments provided if required

### Groups of Market Products

Phthalic anhydride

### Product Quality

Producer	Regulatory Documents
Kamtex-Himprom, Perm	m.A, State Standard (GOST) 7119-77
Lakokraska, Belarus	m.A, GOST 7119-77

## PRODUCER PRICES METHANOL

### Contents

Price assessments of methanol offered by the producers or their parent entities when supplying to the Domestic market. Prices are published in the Thomson Reuters Information Systems and the "Producer Prices of the Russian Federation. Methanol" bulletin.

### Data Sources

Market players of the domestic petrochemical market.

### Market Players

Market products' manufacturing enterprises, petrochemical companies, dealers, distributors and traders selling methanol at domestic market.

### Data considered for assessment

Information about the offer prices of methanol provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels (e-mail, telefax)

### Data Reliability

Price assessments reflect the overall level of the methanol offer prices. Actual sales handled both by producers and their parent entities petrochemical and by dealers, distributors and traders can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms and Lot Size volume.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of i's basis involved in the average price calculation  
 $N$  – a number of basis involved in the average price calculation

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next.

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold.

### Lot Size

Up to 5,000 t

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Legend

$\Delta$  - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

g. - grade

com. – commercial-grade

### Comments

Comments provided if required.

### Groups of Market Products

Methanol

### Product Quality

Producer	Regulatory Documents
Azot, Novomoskovsk	State Standard (GOST) 2222-95
Nevinnomysskiy Azot	GOST 2222-95
Shchekinoazot	GOST 2222-95
TogliattiAzot	GOST 2222-95
Metafrax	GOST 2222-95
Sibmetakhim	GOST 2222-95



## PRODUCER PRICES BUTYL ALCOHOLS & 2-ETHYLHEXANOL

### Contents

Price assessments of butyl alcohols & 2-ethylhexanol offered by the producers or their parent entities when supplying to the Domestic market. Prices are published in the Thomson Reuters Information Systems and the "Producer Prices of the Russian Federation. Butyl alcohols & 2-ethylhexanol" bulletin.

### Data Sources

Market players of the domestic petrochemical market.

### Market Players

Producers, petrochemical companies, dealers, distributors and traders selling butyl alcohols & 2-ethylhexanol at domestic market.

### Data considered for assessment

Information about the offer prices of butyl alcohols & 2-ethylhexanol provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels (e-mail, telefax).

### Data Reliability

Price assessments reflect the overall level of the butyl alcohols & 2-ethylhexanol offer prices. Actual sales undertaken both by petrochemical companies and petrochemical enterprises themselves and by dealers, distributors and traders on free carrier terms can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly.

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of i's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next.

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold.

### Lot Size

Starting from 60 tons (tank car)

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Legend

$\Delta$  - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

t/g - top grade

g. - grade

### Comments

Comments provided if required.

### Groups of Market Products

Butyl alcohols & 2-ethylhexanol

### Product Quality

Producer	Regulatory Documents
iso-Butanol	
Sibur-Khimprom	State Standard (GOST) 9536-79
Angarsk Petrochemical Company	GOST 9536-79
Gazprom neftekhim Salavat	GOST 9536-79
n-Butanol	
Sibur-Khimprom	GOST 5208-81
Angarsk Petrochemical Company	GOST 5208-81
Nevinnomysskiy Azot	GOST 5208-81
Gazprom neftekhim Salavat	GOST 5208-81, amendments 1-3
2-ethylhexanol	
Sibur-Khimprom	GOST 26624-85

## PRODUCER PRICES ETHANOLAMINES

### Contents

Price assessments of ethanolamines offered by the producers or their parent entities when supplying to the Domestic market. Prices are published in the Thomson Reuters Information Systems and the "Producer Prices of the Russian Federation. Ethanolamines" bulletin.

### Data Sources

Market players of the domestic petrochemical market.

### Market Players

Producers, petrochemical companies, dealers, distributors and traders selling ethanolamines at domestic market.

### Data considered for assessment

Information about the offer prices of ethanolamines' provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the ethanolamines offer prices. Actual sales undertaken both by petrochemical companies and petrochemical enterprises themselves and by dealers, distributors and traders on free carrier terms can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly.

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next.

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold.

### Lot Size

10 to 60 tons

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Legend

$\Delta$  - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

t/g - top grade

### Comments

Comments provided if required.

### Groups of Market Products

Ethanolamines

### Product Quality

Producer	Regulatory Documents
Monoethanolamine	
Sintez, Dzerzhinsk	Specification (TU) 2423-002-78722668-2010
Kazanorgsintez	TU 2423-159-00203335-2004
Diethanolamine	
Sintez, Dzerzhinsk	TU 2423-003-78722668-2010
Kazanorgsintez	TU 2423-151-002-0335-2003
Triethanolamine	
Sintez, Dzerzhinsk	TU 2423-005-78722668-2010
Kazanorgsintez	TU 2423-168-00203335-2007

## PRODUCER PRICES ETHYLENE OXIDE

### Contents

Price assessments of ethylene oxide offered by the producers or their parent entities, dealers when supplying to the Domestic market.

### Data Sources

Market players of the domestic petrochemical market

### Market Players

Producers, petrochemical companies, dealers, distributors and traders selling ethylene oxide at domestic market.

### Data considered for assessment

Information about the offer prices of ethylene oxide provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the ethylene oxide offer prices. Actual sales undertaken both by petrochemical companies and petrochemical enterprises themselves and by dealers, distributors and traders on free carrier terms can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly.

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next.

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold.

### Lot Size

Starting from 60 tons (tank car)

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Legend

$\Delta$  - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

g. - grade

### Comments

Comments provided if required.

### Groups of Market Products

Ethylene oxide

### Product Quality

Producer	Regulatory Documents
Sibur-Neftekhim	State Standard (GOST) 7568-88
Nizhnekamskneftekhim	GOST 7568-88
Kazanorgsintez	GOST 7568-88

Grade and type shall be specified where data is available..



## PRODUCER PRICES ETHYLENE GLYCOLS

### Contents

Price assessments of ethylene glycols offered by the producers or their parent entities when supplying to the Domestic market. Prices are published in the Thomson Reuters Information Systems and the "Producer Prices of the Russian Federation. Ethylene glycols" bulletin.

### Data Sources

Market players of the domestic petrochemical market.

### Market Players

Producers, petrochemical companies, dealers, distributors and traders selling ethylene glycols at domestic market.

### Data considered for assessment

Information about the offer prices of ethylene glycols' provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the ethylene glycols offer prices. Actual sales undertaken both by petrochemical companies and petrochemical enterprises themselves and by dealers, distributors and traders on free carrier terms can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly.

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of i's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next.

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold.

### Lot Size

Starting from 60 tons (tank car)

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Legend

$\Delta$  - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

t/g - top grade

g. - grade

### Comments

Comments provided if required.

### Groups of Market Products

Ethylene glycols

### Product Quality

Producer	Regulatory Documents
Monoethylene glycol	
Sibur-Neftekhim	State Standard (GOST) 19710-83
Kazanorgsintez	GOST 19710-83/3
Nizhnekamskneftekhim	GOST 19710-83
Diethylene glycol	
Sibur-Neftekhim	GOST 10136-77
Kazanorgsintez	GOST 10136-77/5
Nizhnekamskneftekhim	GOST 10136-77
Triethylene glycol	
Sibur-Neftekhim	Specification (TU) 6-01-5-88
Kazanorgsintez	TU 6-01-5-88/3
Nizhnekamskneftekhim	TU2422-075-057668001-2006

Grade and typeshall be specified where data available.

## PRODUCER PRICES

### METHYL TERTIARY BUTYL ETHER (MTBE)

#### Contents

Price assessments of methyl tertiary butyl ether (MTBE) offered by the producers or their parent entities when supplying to the Domestic market. Prices are published in the Thomson Reuters Information Systems and the "Producer Prices of the Russian Federation. Methyl tertiary butyl ether" bulletin.

#### Data Sources

Market players of the domestic petrochemical market.

#### Market Players

Producers, petrochemical companies, dealers, distributors and traders selling MTBE at domestic market.

#### Data considered for assessment

Information about the offer prices of MTBE provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

#### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

#### Data Reliability

Price assessments reflect the overall level of the MTBE offer prices. Actual sales undertaken both by petrochemical companies and petrochemical enterprises themselves and by dealers, distributors and traders on free carrier terms can be done at higher or lower prices.

#### Frequency of update

On 10th and 25th monthly.

#### Relevance

Prices are relevant as of the publication date.

#### Prices

Prices are given in roubles per ton including VAT.

#### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

#### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

*P<sub>min</sub><sup>i</sup> - P<sub>max</sub><sup>i</sup> - minimum and maximum price of i's basis involved in the average price calculation*  
*N - a number of basis involved in the average price calculation*

#### Price Change (Δ)

Price change (net change) is the difference in prices from one period to the next.

#### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

#### Locations

Locations of producers from which the products are being sold.

#### Lot Size

Starting from 60 tons (tank car)

#### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

#### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

#### Legend

Δ - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

t/g - top grade

g. - grade

#### Comments

Comments provided if required.

#### Groups of Market Products

Methyl tertiary butyl ether (MTBE)

#### Product Quality

Producer	Regulatory Documents
EKTOS-Volga	Specification (TU) 38.103704-90
Togliattikauchuk	TU 38.103704-90
Sibur-Khimprom	TU 38.103704-90
Uralorgsintez	TU 38.103704-90
Tobolsk-Neftekhim	TU 38.103704-90
Sterlitamak Petrochemical Plant	TU 2435-412-05742686-98
Omsky Kautchuk	TU 38.103704-90

Grade and type shall be specified where data available

## PRODUCER PRICES SULFURIC ACID

### Contents

Price assessments of sulfuric acid offered by the producers or their parent entities when supplying to the Domestic market. Prices are published in the Thomson Reuters Information Systems and the "Producer Prices of the Russian Federation. Sulfuric acid" bulletin.

### Data Sources

Members of domestic petroleum and petrochemical markets.

### Market Players

Producers, petrochemical companies, dealers, distributors and traders selling sulfuric acid at domestic market.

### Data considered for assessment

Information about the offer prices of sulfuric acid provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the sulfuric acid offer prices. Actual sales undertaken both by petrochemical companies and petrochemical enterprises themselves and by dealers, distributors and traders on free carrier terms can be done at higher or lower prices.

### Frequency of update

On 10th monthly.

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of i's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold.

### Lot Size

Starting from 60 tons (tank car)

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Legend

$\Delta$  - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

com. - commercial-grade

cont. - contact

batt. - battery

enhan. - enhanced

s. - sort

t/g - top grade

### Comments

Comments provided if required

### Groups of Market Products

Sulfuric acid

### Product Quality

Producer	Regulatory Documents
Ryazanskaya NPK	State Standard (GOST) 2184-77
Slavneft-Yaroslavnfteorgsintez	GOST 2184-77, amendments 1-4
Novokuibyshevsk Refinery	GOST 2184-77
Syzran Refinery	GOST 2184-77
Angarsk Petrochemical Company	GOST 2184-77
Omsky NPZ	GOST 2184-77, amendments 1-4
Azot, Kemerovo	GOST 2184-77
Kirishinefteorgsintez	GOST 2184-77
Efremov chemical plant, Shchekinoazot	GOST 667-73, GOST 2184-77
LUKOIL-Nizhegorodnefteorgsintez	GOST 2184-77, amendments 1-4
LUKOIL-Permnefteorgsintez	GOST 2184-77
Sredneurski Medeplavilny Zavod, Revda	GOST 2184-77
Biysky oleumny zavod	GOST 2184-77

Grade and type shall be specified where data available



## PRODUCER PRICES

### AMMONIA WATER AND ANHYDROUS AMMONIA

#### Contents

Price assessment of ammonia water and anhydrous ammonia offered by the producers or their parent entities when supplying to the Domestic market. Prices are published in the Thomson Reuters Information Systems and the "Producer Prices of the Russian Federation. Ammonia water and anhydrous ammonia" bulletin.

#### Data Sources

Market players of the domestic petrochemical market.

#### Market Players

Producers, their parent entities, dealers, distributors and traders selling ammonia water and anhydrous ammonia at domestic market.

#### Data considered for assessment

Information about the offer prices of ammonia water and anhydrous ammonia provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

#### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

#### Data Reliability

Prices reflect ammonia water and anhydrous ammonia offer prices. Actual sales undertaken both by petrochemical companies and petrochemical enterprises themselves and by dealers, distributors and traders on free carrier terms can be done at higher or lower prices.

#### Frequency of update

On 10th monthly

#### Relevance

Prices are relevant as of the publication date.

#### Prices

Prices are given in roubles per ton including VAT.

#### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

#### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

#### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next.

#### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

#### Locations

Locations of producers from which the products are being sold.

#### Lot Size

Starting from 30-40 tons (tank car). If other standard Lot Size, the corresponding Comments shall be provided in the bulletin.

#### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

#### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

#### Legend

$\Delta$  - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

g. - grade

#### Comments

Comments provided if required

#### Groups of Market Products

ammonia water, anhydrous ammonia

#### Product Quality

Producer	Regulatory Document
Ammonia water, 25%, m.m. A, B	
PhosAgro -Cherepovets	State Standard (GOST) 9-92
Dorogobuzh	GOST 9-92
Azot, Novomoskovsk	GOST 9-92
Nevinnomysskiy Azot	GOST 9-92
KuibyshevAzot	GOST 9-92
TogliattiAzot	GOST 9-92
Azot, Berezniki	GOST 9-92
Gazprom neftekhim Salavat	GOST 9-92
Azot, Kemerovo	GOST 9-92
Minudobrenya, Perm	GOST 9-92
Angarsky Azotno-Tukovy Zavod	GOST 9-92
Anhydrous ammonia, m.m. A, B	
PhosAgro -Cherepovets	GOST 6221-90
Azot, Novomoskovsk	GOST 6221-90
Nevinnomysskiy Azot	GOST 6221-90
KuibyshevAzot	GOST 6221-90
Shchekinoazot	GOST 6221-90
TogliattiAzot	GOST 6221-90
Azot, Berezniki	GOST 6221-90
Gazprom neftekhim Salavat	GOST 6221-90, amendment 1
Azot, Kemerovo	GOST 6221-90
Minudobrenya, Perm	GOST 6221-90

## PRODUCER PRICES CARBAMIDE

### Contents

Price assessment of carbamide traded on the domestic physical commodity market offered by producers or their parent entities and other organizations on the wholesale and retail markets and/or purchased on the domestic market.

### Data Sources

Market participants of domestic chemical and agro-chemical markets.

### Market Players

Producers, their parent entities, dealers, distributors and traders.

### Data considered for assessment

Information about the offer prices of carbamide provided by the market participants.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Data reflects the overall level of carbamide offer prices. Actual sales can be done at higher or lower prices.

Price monitoring involves the maximum possible number of market participants. The price level is determined on the basis of the information received from reliable sources in the market (buyers and sellers). Non-standard transactions and / or bids and offers that deviate significantly from the typical market prices are not included in the evaluation process.

### Frequency of update

On 10th monthly

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  – a number of basis involved in the average price calculation

### Delivery Basis

- FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.
- EXW- Ex Works (Producer's warehouse)

### Locations

Locations of producers from which the products are being sold

### Lot Size

Producers' offer prices - starting from 50-60 tons (car)

Traders' offer prices - 10-20 tons

### Legend

- $\Delta$  - price change
- "+" - growth
- "-" - decrease
- "+0" - unchanged
- "empty" - there is no basis for comparison
- g. - grade

### Comments

Comments provided if required

### Groups of Market Products

Carbamide

### Product Quality

Producer	Regulatory Documents
Acron	State Standard (GOST) 2081-2010
PhosAgro-Cherepovets	GOST 2081-2010
Azot, Novomoskovsk	GOST 2081-2010
Gazprom neftekhim Salavat	GOST 2081-2010
KuibyshevAzot	GOST 2081-2010
Azot, Berezniki	GOST 2081-2010
TogliattiAzot	GOST 2081-2010
Minudobrenya, Perm	GOST 2081-2010
Azot, Kemerovo	GOST 2081-2010
Nevinnomyskiy Azot	GOST 2081-2010

Grade and type shall be specified where data available.



## PRODUCER PRICES PETROLEUM SOLVENTS

### Contents

Price assessments of the petroleum solvents offered by the producers or their parent entities when supplying to the Domestic market.

### Data Sources

Market players of the domestic petrochemical market.

### Market Players

Producers, petrochemical companies, dealers, distributors and traders selling petroleum solvents on the domestic market.

### Data considered for assessment

Information about the offer prices of petroleum solvents provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of petroleum solvents offer prices. Actual sales undertaken both by petrochemical companies and petrochemical enterprises themselves and by dealers, distributors and traders on free carrier terms can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly.

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  – a number of basis involved in the average price calculation

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next.

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold.

### Lot Size

20 to 60 tons

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Legend

$\Delta$  - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

### Comments

Comments provided if required.

### Groups of Market Products

Petroleum solvents

### Product Quality

Producer	Grade	Regulatory Documents
LUKOIL-Permnefteorgsintez	A-130/150	State Standard (GOST) 10214-78, amendments 1-3
Ryazanskaya NPK	P1-63/75	Specification (TU) 38.1011228-90
	S2-80/120	TU 38.401-67-108-92
Kirishinefteorgsintez	A-150/330	TU 38.1011049-98 amendment 1
	S4-50/170	GOST 8505-80, amendments 1-3
Retsycl, Perm	S4-150/200	TU 38.1011026-85

## PRODUCER PRICES PYROLYSIS TARS

### Contents

Price assessments of heavy pyrolysis tars and liquid pyrolysis products offered by the producers or their parent entities when supplying to the Domestic market. Prices are published in the Thomson Reuters Information Systems and the "Producer Prices of the Russian Federation. Pyrolysis tars" bulletin.

### Data Sources

Market players of the domestic petrochemical market.

### Market Players

Producers, petrochemical companies, dealers, distributors and traders selling at domestic market.

### Data considered for assessment

Information about the offer prices of heavy pyrolysis tars and liquid pyrolysis products provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Prices reflect heavy pyrolysis tars and liquid pyrolysis products offer prices. Actual sales undertaken both by petrochemical companies and petrochemical enterprises themselves and by dealers, distributors and traders on free carrier terms can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of i's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next.

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold.

### Lot Size

starting from 60 tons (tank car)

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Legend

$\Delta$  - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

g. - grade

s. - sort

fr. - fraction

### Comments

Comments provided if required.

### Groups of Market Products

Heavy pyrolysis tars and liquid pyrolysis products.

### Product Quality

Producer	Regulatory Documents
	Heavy pyrolysis tars
Sibur-Kstovo	Specification (TU) 38.1021256-89
Sibur-Khimprom	TU 2451-168-00151727-00
Tomskneftekhim	TU 38.1021256-89
Stavrolen	TU 38.1021256-89
Angarsk Polymer Plant	TU 38.1021256-89 amendments 1-3
Nizhnekamskneftekhim	TU 38.1021256-89
Gazprom neftekhim Salavat	TU 38.1021256-89 amendments 1-5
	Liquid pyrolysis products
Sibur-Kstovo	TU 38.101493-79, TU 38.102180-86
Sibur-Khimprom	TU 38.402-62-144-93
Tomskneftekhim	TU 2451-021-05796653-2001
Stavrolen	TU 38.102180-86
Angarsk Polymer Plant	TU 2451-321-05742746-97 amendment 1
Kazanorgsintez	TU 2451-179-00203335-2008/1
Ufaorgsintez	TU 2451-075-05766563-2004
Neftehimiya	TU 2451-178-72042240-2006 amendments 1,2,3

## PRODUCER PRICES RAW MATERIALS FOR CARBON BLACK

### Contents

Price assessments of raw materials for carbon black production offered by the producers or their parent entities when supplying to the Domestic market. Prices are published in the Thomson Reuters Information Systems and the "Producer Prices of the Russian Federation. Raw materials for carbon black" bulletin.

### Data Sources

Market players of the domestic petrochemical market

### Market Players

Producers, petrochemical companies, dealers, distributors and traders selling raw materials for carbon black at domestic market.

### Data considered for assessment

Information about the offer prices of raw materials for carbon black provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the raw materials for carbon black offer prices. Actual sales undertaken both by petrochemical companies and petrochemical enterprises themselves and by dealers, distributors and traders on free carrier terms can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly

### Relevance

Prices are relevant as of the publication date

### Prices

Prices are given in roubles per ton including VAT

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of i's basis involved in the average price calculation  
 $N$  – a number of basis involved in the average price calculation

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold

### Lot Size

Heavy pyrolysis resin - starting from 60 tons (tank car)  
 Anthracene fraction – 20-60 tons

### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Legend

$\Delta$  - price change  
 "+" - growth  
 "-" - decrease  
 "+0" - unchanged  
 "empty" - there is no basis for comparison  
 s. - sort  
 t/g - top grade  
 g. - grade

### Comments

Comments provided if required

### Groups of Market Products

Raw materials for carbon black  
 - heavy pyrolysis tar  
 - anthracene fraction

### Product Quality

Producer	Regulatory Documents
Heavy pyrolysis tar	
Sibur-Kstovo	Specification (TU) 38.1021256-89
Sibur-Khimprom	TU 2451-168-00151727-00
Tomskneftekhim	TU 38.1021256-89
Stavrolen	TU 38.1021256-89
Angarsk Polymer Plant	TU 38.1021256-89 amendments 1-3
Nizhnekamskneftekhim	TU 38.1021256-89
Gazprom neftekhim Salavat	TU 38.1021256-89 amendments 1-5
Anthracene fraction	
Severstal	TU 38.501-02-19-89 Unified coke-oven oil
Magnitogorsk Iron and Steel Works	State Standard (GOST) 11126-88 Coke-oven raw materials for carbon black
Chelyabinsk Metallurgical Plant	GOST 11126-88 Coke-oven raw materials for carbon black
Nizhniy Tagil Iron and Steel Works	TU 38.501-02-19-89 Unified coke-oven oil
West-Siberian Metallurgical Plant	TU 38.501-02-19-89 Unified coke-oven oil

Grade and type shall be specified where data available.

## PRODUCER PRICES INDUSTRIAL SULPHUR

### Contents

Price assessments of industrial sulphur offered by the producers or their parent entities when supplying to the Domestic market. Prices are published in the Thomson Reuters Information Systems and the "Producer Prices of the Russian Federation. Industrial sulphur" bulletin.

### Data Sources

Members of domestic petroleum and petrochemical markets

### Market Players

Producers, their parent entities, dealers, distributors and traders selling commercial sulphur at domestic market.

### Data considered for assessment

Information about the offer prices of sulphur provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels

### Data Reliability

Price assessments reflect the overall level of the commercial sulphur offer prices. Actual sales handled both by petroleum and petrochemical companies themselves and by producers, dealers, distributors and traders on free carrier terms can be done at higher or lower prices.

### Frequency of update

On 10th monthly

### Relevance

Prices are relevant as of the publication date

### Prices

Prices are given in roubles per ton including VAT

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

*P<sub>min</sub><sup>i</sup> - P<sub>max</sub><sup>i</sup> - minimum and maximum price of i's basis involved in the average price calculation*  
*N - a number of basis involved in the average price calculation*

### Price Change (Δ)

Price change (net change) is the difference in prices from one period to the next

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold

### Lot Size

Starting from 60 tons (car, tank car)

### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Legend

Δ - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

### Comments

Comments provided if required

### Groups of Market Products

Industrial gas sulphur

### Product Quality

Producer	Regulatory Document	Type	Sort
Slavneft-Yaroslavnefteorgsintez	Specification (TU) 24.1-25545611-001-2001	Sulfur Prill	9998, 9995, 9990
	State Standard (GOST) 127.1-93	Sulfur Liquid	9998, 9995, 9990
	GOST 127.1-93	Sulfur Block	9998
Moscow Refinery	GOST 127.1-93	Sulfur Liquid	9998
Gazprom Dobycha Orenburg	GOST 127.1-93	Sulfur Liquid	9998
Ufimsky Refinery Plant	GOST 127.1-93	Sulfur Block	9995
Novo-Ufimsky refinery plant	GOST 127.1-93	Sulfur Block	9995
Ufaneftekhim	GOST 127.1-93	Sulfur Block	9995
Saratovsky refinery	GOST 127.1-93	Sulfur Block	9995
Samara group of refineries	GOST 127.1-93	Sulfur Block	9998, 9920, 9995, 9990, 9950
Gazprom neftekhim Salavat	GOST 127.1-93	Sulfur Block	9998
TAIF-NK	TU 2112-096-31323949-2003	Sulfur Prill	9998
LUKOIL-Permnefteorgsintez	TU 2112-125-00148636-2004, amendments 1-3	Sulfur Prill	9998
LUKOIL-Nizhegorodnefteorgsintez	Company Standard (STO) 00044434-015-2010 amendment 1	Sulfur Prill	9998
LUKOIL-Volgogradneftepererabotka	STO 00044434-015-2010 amendment 1	Sulfur Prill	9998
Gazprom Dobycha Astrakhan	GOST 127.1-93	Sulfur Liquid	9998
Omsky NPZ	GOST 127.1-93	Sulfur Block	9920
Achinsk refinery	TU 2112-077-00151638-2007	Sulfur Prill	9998
Kirishinefteorgsintez	GOST 127.1-93	Sulfur Block	9950



## PRODUCER PRICES POLYETHYLENE TEREPHTHALATE (PET)

### Contents

Price assessments of polyethylene terephthalate (PET) offered by the producers or their parent entities when supplying to the Domestic market. Prices are published in the Thomson Reuters Information Systems and the "Producer Prices of the Russian Federation. Polyethylene terephthalate " bulletin.

### Data Sources

Members of the domestic petrochemical market

### Market Players

Market products' manufacturing enterprises, petrochemical companies, dealers, distributors and traders selling polyethylene terephthalate at domestic market.

### Data considered for assessment

Information about the offer prices of polyethylene terephthalate (PET) provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the polyethylene terephthalate (PET) offer prices. Actual sales handled both by producers and their parent entities petrochemical and by dealers, distributors and traders can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly

### Relevance

Prices are relevant as of the publication date

### Prices

Prices are given in roubles per ton including VAT

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  – a number of basis involved in the average price calculation

### Delivery Basis

EXW – Ex Works (producer's warehouse). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold

### Lot Size

10-50 tons

### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Legend

$\Delta$  - price change

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

### Comments

Comments provided if required

### Groups of Market Products

Polyethylene terephthalate (PET)

### Product Quality

Producer	Regulatory Documents
Sibur-PETF	Specification (TU) 2226-001-55588670-2007 amendment 1
New Polymers Plant Senegal	TU 2226-001-56475614-2006
POLIEF	TU 2226-008-39989731-2009
Alco-Naphtha	TU 2226-001-56116128-2011

## PRODUCER PRICES POLYPROPYLENE (PP)

### Contents

Price assessments of polypropylene (PP) offered by the producers or their parent entities when supplying to the Domestic market.

### Data Sources

Market players of the domestic petrochemical market

### Market Players

Market products' manufacturing enterprises, petrochemical companies, dealers, distributors and traders selling polypropylene at domestic market.

### Data considered for assessment

Information about the offer prices of polypropylene provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the polypropylene offer prices. Actual sales handled both by producers and their parent entities petrochemical and by dealers, distributors and traders on ex works terms can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly

### Relevance

Prices are relevant as of the publication date

### Prices

Prices are given in roubles per ton including VAT

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of  $i$ 's basis involved in the average price calculation

$N$  – a number of basis involved in the average price calculation

### Lot Size

10-50 tons

### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

### Delivery Basis

EXW – Ex Works (producer's warehouse). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold

Nº	Producer
1	NPP Neftekhimiya
2	Ufaorgsintez
3	Tomskneftekhim
4	Stavrolen
5	Poliom
6	Tobolsk-Polymer
7	Nizhnekamskneftekhim

### Legend

« $\Delta$ » - Price Change in regard to the previous period

“+” - growth

“-” - decrease

“+0” - unchanged

“empty” - there is no basis for comparison

### Comments

Comments provided if required

### Groups of Market Products

- homopolymers

- block copolymers

- random copolymers

## PRODUCER PRICES POLYSTYRENE & ABS PLASTIC

### Contents

Price assessments of polystyrene and ABS plastic offered by the producers or their parent entities when supplying to the Domestic market. Prices are published in the Thomson Reuters Information Systems and the "Producer Prices of the Russian Federation. Polystyrene and ABS plastic " bulletin.

### Data Sources

Market players of the domestic petrochemical market

### Market Players

Producers, petrochemical companies, dealers, distributors and traders selling polystyrene and ABS plastic at domestic market.

### Data considered for assessment

Information about the offer prices of polystyrene and ABS plastic provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the polystyrene and ABS plastic offer prices. Actual sales handled both by producers and their parent entities petrochemical and by dealers, distributors and traders on ex works terms can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly

### Relevance

Prices are relevant as of the publication date

### Prices

Prices are given in roubles per ton including VAT

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of  $i$ 's basis involved in the average price calculation

$N$  – a number of basis involved in the average price calculation

### Lot Size

PS: 10 to 50 tons

ABS: up to 10 tons

### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

### Delivery Basis

EXW – Ex Works (producer's warehouse). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Locations

Locations of producers from which the products are being sold

Nº	Producer
1	Plastic, Uzlovaya
2	Angarsk Polymer Plant
3	Gazprom neftekhim Salavat
4	Nizhnekamskneftekhim
5	PG Prof
6	Sibur-Khimprom

### Legend

« $\Delta$ » - Price Change in regard to the previous period

"+" - growth

"-" - decrease

"+0" - unchanged

"empty" - there is no basis for comparison

### Comments

Comments provided if required

### Groups of Market Products

Expendable polystyrene (EPS)

General-purpose polystyrene (GPPS)

High-impact polystyrene (HIPS)

ABS plastic

## PRODUCER PRICES SYNTHETIC RUBBERS

### Contents

Price assessments of synthetic rubbers offered by the producers or their parent entities when supplying to the Domestic market.

### Data Sources

Market players of the domestic petrochemical market.

### Market Players

Producers, petrochemical companies, dealers, distributors and traders selling synthetic rubbers at domestic market.

### Data considered for assessment

Information about the offer prices of synthetic rubbers provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the synthetic rubbers offer prices. Actual sales handled both by producers and their parent entities petrochemical and by dealers, distributors and traders on ex works terms can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly

### Relevance

Prices are relevant as of the publication date

### Prices

Prices are given in roubles per ton including VAT

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next

### Lot Size

10-60 tons

### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

### Delivery Basis

EXW – Ex Works (producer's warehouse). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold

Nº	Producer
1	Togliattikauchuk
2	Nizhnekamskneftekhim
3	Syntez-Kauchuk
4	Voronezhsintezkauchuk
5	Efremov Synthetic Rubber Enterprise
6	Sterlitamak Petrochemical Plant
7	Omsky Kautchuk
8	Ufaorgsintez
9	Krasnoyarsky ZSK

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Legend

« $\Delta$ » - Price Change in regard to the previous period

“+” - growth

“-” - decrease

“+0” - unchanged

“empty” - there is no basis for comparison

### Comments

Comments provided if required

### Groups of Market Products

Synthetic rubbers

- isoprene rubber
- divinyl rubber
- butadiene-styrene rubber
- butyl rubber
- ethylene-propylene rubber
- butadiene nitrile rubber



## PRODUCER PRICES CARBAMIDE-FORMALDEHYDE RESINS

### Contents

Price assessments of carbamide-formaldehyde resins offered by the producers or their parent entities when supplying to the Domestic market.

### Data Sources

Market players of the domestic petrochemical market

### Market Players

Market products' manufacturing enterprises, petrochemical companies, dealers, distributors and traders selling aminoformaldehyde resins at domestic market.

### Data considered for assessment

Information about the offer prices of carbamide-formaldehyde resins provided by the market participants.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the resins offer prices. Actual sales handled both by producers and their parent entities petrochemical and by dealers, distributors and traders can be done at higher or lower prices. Preference shall be given to data from producers and their parent entities. In case such data is absent (unavailable), prices from dealers, distributors or traders are used.

### Frequency of update

On 10th monthly

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Price changes ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next.

### Delivery Basis

EXW – Ex Works (producer's warehouse). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold.

### Lot Size

5 to 10 tons (customer pick-up by motor vehicles)

starting from 60 tons (railway car tank)

If other standard Lot Size, the corresponding Comments shall be provided in the bulletin.

### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

### Legend

« $\Delta$ » - Price Changein regard to the previous period

“+” - growth

“-” - decrease

“+0” - unchanged

“empty” - there is no basis for comparison

### Groups of Market Products

carbamide-formaldehyde resins

### Product Quality

Manufacturing Enterprise	Grade	Regulatory Documents
Shchekinoazot	KFK-85	Specification (TU) 2494-002-52185836-2006
Pigment, Tambov	KF-Zh	State Standard (GOST) 14231-88
TogliattiAzot	KFK-85	TU 113-03-469-80
Metafrax	KFK-85	TU 2181-032-00203803-2003
	KF MT-15	TU 6-06-12-88
	KF-Zh	GOST 14231-88
Himsintez, Chapaevsk	KF MT-15	TU 6-06-12-88
	KF-Zh	GOST 14231-88
Sibmetakhim	SKF-NM	TU 6-06-12-88

## PRODUCER PRICES

### LOW DENSITY POLYETHYLENE (LDPE)

#### Contents

Price assessments of low density polyethylene (LDPE) offered by the producers or their parent entities when supplying to the Domestic market.

#### Data Sources

Market players of the domestic petrochemical market

#### Market Players

Market products' manufacturing enterprises, petrochemical companies, dealers, distributors and traders selling LDPE at domestic market.

#### Data considered for assessment

Information about the offer prices of low density polyethylene (LDPE) provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

#### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

#### Data Reliability

Price assessments reflect the overall level of the LDPE offer prices. Actual sales handled both by producers and their parent entities petrochemical and by dealers, distributors and traders on ex works terms can be done at higher or lower prices.

#### Frequency of update

On 10th and 25th monthly

#### Relevance

Prices are relevant as of the publication date

#### Prices

Prices are given in roubles per ton including VAT

#### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

#### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of  $i$ 's basis involved in the average price calculation

$N$  – a number of basis involved in the average price calculation

#### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next

#### Lot Size

10 to 50 tons

#### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

#### Delivery Basis

EXW – Ex Works (producer's warehouse). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

#### Locations

Locations of producers from which the products are being sold

Nº	Manufacturing Enterprise
1	Kazanorgsintez
2	Angarsk Polymer Plant
3	Gazprom neftekhim Salavat
4	Ufaorgsintez
5	Tomskneftekhim

#### Legend

« $\Delta$ » - Price Change in regard to the previous period

“+” - growth

“-” - decrease

“+0” - unchanged

“empty” - there is no basis for comparison

#### Comments

Comments provided if required

#### Groups of Market Products

Low density polyethylene (LDPE)

## PRODUCER PRICES HIGH DENSITY POLYETHYLENE (HDPE)

### Contents

Price assessments of high density polyethylene (HDPE) offered by the producers or their parent entities when supplying to the Domestic market.

### Data Sources

Market players of the domestic petrochemical market.

### Market Players

Market products' manufacturing enterprises, petrochemical companies, dealers, distributors and traders selling HDPE at domestic market.

### Data considered for assessment

Information about the offer prices of high density polyethylene (HDPE) provided by the market participants.

Preference shall be given to data from producers and their parent entities. In case if such data is absent (unavailable), prices from dealers, distributors or traders can be used.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the HDPE offer prices. Actual sales handled both by producers and their parent entities petrochemical and by dealers, distributors and traders on ex works terms can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price Range

Price range corresponds with minimum and maximum level of prices and depends on sales terms.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  – a number of basis involved in the average price calculation

### Price Change ( $\Delta$ )

Price change (net change) is the difference in prices from one period to the next.

### Lot Size

10 to 50 tons

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Delivery Basis

EXW – Ex Works (producer's warehouse). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold

Nº	Manufacturing Enterprise
1	Kazanorgsintez
2	Nizhnekamskneftekhim
3	Gazprom neftekhim Salavat
4	Stavrolen

### Legend

« $\Delta$ » - Price Change in regard to the previous period

“+” - growth

“-” - decrease

“+0” - unchanged

“empty” - there is no basis for comparison

### Comments

Comments provided if required.

### Groups of Market Products

High density polyethylene (HDPE)

## PRODUCER PRICES HYDROCARBON FRACTIONS C3-C4

### Contents

- price assessments of propane-propylene fraction (PPF) and butane-butylene fraction (BBF) or the Domestic market;

#### Additional information

- volumes of PPF and BBF shipped by Russian producers by rail to the domestic market in the previous month with the specified list of consumers (this information is issued in the beginning of the month);

- volumes of PPF and BBF shipped by Russian producers by rail to the domestic market for the period from the 1st to the 20th of the current month (this information is issued in the end of the month)

### Data Sources

Market participants of domestic petroleum products market and petrochemical market

### Market Players

Oil refineries, petrochemical enterprises and their parent entities that produce propane-propylene and butane-butylene fractions and offer them on the Domestic market.

### Data considered for assessment

Information about the offer prices of propane-propylene and butane-butylene fractions provided by the market participants.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the offer prices. Actual sales being handled by producers and their parent entities can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price change

Price change (net change) is the difference in prices from one period to the next.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  – a number of basis involved in the average price calculation

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold.

### Lot Size of Goods

30-60 t

### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

### Shipment Terms

Up to 30 calendar days

### Comments

Comments provided if required

### Groups of Market Products

Propane-propylene fraction (PPF)

Butane-butylene fraction (BBF)

### Product Quality

Producer	Regulatory Documents
Propane-propylene fraction (PPF)	
Ryazanskaya NPK	Specification (TU) 0272-024-00151638-99
Slavneft-Yaroslavnefteorgsintez	TU 0272-024-00151638-99 amendment 1
Moscow Refinery	Company Standard (STO) 05766623-014.23-2012
Omsky NPZ	TU 2411-020-55871762-2003
Butane-butylene fraction (BBF)	
Togliattikauchuk	TU 2411-020-48158319-2001
Syzran Refinery	TU 0272-027-00151638-99
Moscow Refinery	TU 0272-027-00151638-99
Ufimsky Refinery Plant	TU 0272-027-00151638-99 amendment 1,2
Angarsk Petrochemical Company	STO 05742746-004-2011

## PRODUCER PRICES BUTYLENE-DIVINYL FRACTION (BDF)

### Contents

- data of producers' release prices for butylene-divinyl fraction (BDF) when supplying to the Domestic market

### Additional information

- volumes of BDF shipping by the RF producers via railway transport to domestic market for the entire previous month (shall be given in entry-of-a-month issues);

- volumes of BDF supply to the domestic market consumers via railway transport for the entire previous month (shall be given in end-of-a-month issues)

### Data Sources

Market players of the domestic petrochemical market

### Market Players

BDF producers or their parent entities offering BDF on the Domestic market

### Data considered for assessment

Information about the offer prices of BDF provided by the market participants

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Price assessments reflect the overall level of the BDF offer prices. Actual sales being handled both by producers themselves and by their parent entities can be done at higher or lower prices.

### Frequency of update

On 10th and 25th monthly

### Relevance

Prices are relevant as of the publication date.

### Prices

Prices are given in roubles per ton including VAT.

### Price Change

Price change (net change) is the difference in prices from one period to the next.

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of  $i$ 's basis involved in the average price calculation

$N$  – a number of basis involved in the average price calculation

### Delivery Basis

FCA - Free Carrier (producer's railway station). If other delivery terms are used, the corresponding Comments shall be provided in the bulletin.

### Locations

Locations of producers from which the products are being sold

### Lot Size of Goods

30 to 60 tons

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Shipment Terms

Up to 30 calendar days.

### Comments

Comments provided if required.

### Groups of Market Products

Butylene-divinyl fraction (BDF)

### Product Quality

Producer	Regulatory Documents
Tomskneftekhim	Specification (TU) 38.402-62-123-90, amendments 1, 2, 3
Sibur-Neftekhim	TU 38.402-62-123-90, amendments 1, 2, 3
Ufaorgsintez	TU 38.402-62-123-90, amendments 1-7
Angarsk Polymer Plant	TU 2411-18272042240-2011
Kazanorgsintez	TU 2411-169-00203335-2007/2

## SPOT MARKET PRICES ETHYLENE GLYCOLS

### Contents

- prices for ethylene glycols on the local small wholesale market of physical commodity;  
- prices from traders including the delivery costs of ethylene glycols shipped to Moscow by railway transport. Prices are published in the Thomson Reuters Information Systems and the "Spot market prices of the Russian. Ethylene glycols" bulletin.

### Data Sources

Market participants of petrochemical small wholesale market.

### Market Players

Small wholesale market players selling and/or purchasing ethylene glycols (representatives of petrochemical companies, traders, end users). Price monitoring involves the maximum possible number of market participants.

### Data considered for assessment

- information about bids and offers provided by the Market Players and/or actual deals;  
- current Russian Railways rates for ethylene glycols transportation.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Data reliability is ensured through the collection and analysis of similar type of information obtained simultaneously from different sources. The price level is determined on the basis of the information about bids and offers received from reliable sources (buyers and sellers).

All sale/purchase deals and/or offers are thoroughly analyzed by experts. Anonymity of respondents is guaranteed. Non-standard transactions and / or bids and offers that deviate significantly from the typical market prices are not included in the evaluation process.

### Prices

Prices are given in thousand roubles per ton including VAT.

### Price Range

Price range corresponds to the minimum and maximum prices of supply and demand obtained as a result of monitoring.

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Relevance

Prices are effective as of period specified in the bulletin.

### Frequency of update

On 10th and 25th monthly

### Lot Size

60 to 200 t

### Delivery Basis

FCA - Free Carrier (producer's railway station).  
FCA - Free Carrier (Moscow).

### Locations

- locations of producers from which the products are being sold;  
- Moscow city

### Groups of Market Products

Monoethylene glycol (MEG), diethylene glycol (DEG), triethylene glycol (TEG)

### Comments

Overview of the most significant events on the market.

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Legend

«Δ» - average prices' alteration with regard to the previous period

"+" - prices' growth

"-" - prices' fall

"+0" - unchanged

"empty" - there is no basis for comparison

t/g - top grade

g. - grade

### Comments

Comments can be used to reflect the changes in the market conditions.

### Product Quality

Manufacturing Company / Enterprise	Regulatory Documents
Monoethylene glycol	
SIBUR Holding / Sibur-Neftekhim	State Standard (GOST) 19710-83
Kazanorgsintez	GOST 19710-83/3
Nizhnekamskneftekhim	GOST 19710-83
Diethylene glycol	
SIBUR Holding / Sibur-Neftekhim	GOST 10136-77
Nizhnekamskneftekhim	GOST 10136-77
Triethylene glycol	
SIBUR Holding / Sibur-Neftekhim	Specification (TU) 6-01-5-88
Nizhnekamskneftekhim	TU2422-075-057668001-2006

## SPOT MARKET PRICES METHYL TERTIARY BUTYL ETHER (MTBE)

### Contents

Prices assessments of MTBE on the local small wholesale market of physical commodity. Prices are published in the Thomson Reuters Information Systems and the "Spot market prices of the Russian MTBE" bulletin.

### Data Source

Market participants of petrochemical small wholesale market.

### Market Players

Small wholesale market participants selling and/or purchasing MTBE (representatives of petrochemical companies, dealers, distributors, traders, end users/consumers). Price monitoring involves the maximum possible number of market participants.

### Data considered for assessment

Information about bids and offers provided by the Market Players and/or actual deals.

### Data Collection Methods

Polling of market participants via phone, Getting information through communication channels.

### Data Reliability

Data reliability is ensured through the collection and analysis of similar type of information obtained simultaneously from different sources. The price level is determined on the basis of the information about bids and offers received from reliable sources (buyers and sellers).

All sale/purchase deals and/or offers are thoroughly analyzed by experts. Anonymity of respondents is guaranteed. Non-standard transactions and / or bids and offers that deviate significantly from the typical market prices are not included in the evaluation process

### Prices

Prices are given in roubles per ton including VAT.

### Price Range

Price range corresponds to the minimum and maximum prices of supply and demand obtained as a result of monitoring.

### Terms of Payment

Payment in cash (prepayment or Letter of Credit).

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Relevance

Prices are relevant as of the bulletin publication date.

### Frequency of update

On 10th and 25th monthly

### Lot Size

60 to 300 ton

### Delivery Basis

FCA - Free Carrier (producer's railway station).

### Locations

Locations of producers from which the products are being sold.

### Groups of Market Products

Methyl tertiary butyl ether (MTBE)

### Comments

Overview of the most significant events on the market.

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system.

### Legend

«Δ» - average prices' alteration in regard to the previous period  
 "+" - prices' growth  
 "-" - prices' fall  
 "+0" - unchanged  
 "empty" - there is no basis for comparison

### Comments

Comments can be used to reflect the changes in the market conditions.

### Product Quality

Producer	Regulatory Documents
EKTOS-Volga	Specification (TU) 38.103704-90
Togliattikauchuk	TU 38.103704-90
Sibur-Khimprom	TU 38.103704-90
Uralorgsintez	TU 38.103704-90
Tobolsk-Neftekhim	TU 38.103704-90
Sterlitamak Petrochemical Plant	TU 2435-412-05742686-98
Omsky Kautchuk	TU 38.103704-90

## SPOT MARKET PRICES LOW DENSITY POLYETHYLENE (LDPE)

### Contents

Price assessments of low density polyethylene (LDPE) produced in Russia or abroad on the local spot market of physical commodity in the largest consumption regions. Prices are published in the Thomson Reuters Information Systems and the "Spot market prices of the Russian. Low density polyethylene (LDPE)" bulletin.

### Data Source

Market participants of the local petrochemical spot market.

### Market Players

Representatives of the petrochemical companies, dealers, distributors, traders, end-users engaged in the sale and / or purchase of LDPE in the regional spot markets.

Price monitoring involves the maximum possible number of market participants.

### Data considered for assessment

Information about bids and offers provided by the Market Players and/or actual deals.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels

### Data Reliability

Data reliability is ensured through the collection and analysis of similar type of information obtained simultaneously from different sources. The price level is determined on the basis of the information about bids and offers received from reliable sources (buyers and sellers).

All sale/purchase deals and/or offers are thoroughly analyzed by experts. Anonymity of respondents is guaranteed. Non-standard transactions and / or bids and offers that deviate significantly from the typical market prices are not included in the evaluation process.

### Prices

Prices are given in thousand roubles per ton including VAT.

### Price Range

Price range corresponds to the minimum and maximum prices of supply and demand obtained as a result of monitoring.

### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Relevance

Prices are effective as of period specified in the bulletin.

### Frequency of update

Twice per month (the second and the fourth Friday of a month).

### Lot Size

10-20 tons

### Delivery Basis

EXW – Ex Works (producer's warehouse).

EXW - Ex Works (seller's warehouse).

### Groups of Market Products

Low density polyethylene (LDPE)

### Product Range

The bulletin indicated the product grades, delivery terms and regions for which prices have been obtained as a result of monitoring.

### Comments

Overview of the most significant events on the market.

### Standard Comments

(\*) according to the majority of market participants, these products are not available in those regions of Russia on Ex Works producer's warehouse terms;

(\*\*) according to the majority of market participants, these products are not available in those regions of Russia on Ex Works seller's warehouse terms.

Additional Comments can be used to reflect the changes in the market conditions.

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system

### Legend

"Δ" - average prices' alteration with regard to the previous period

"+" - prices' growth

"-" - prices' fall

"+0" - unchanged

"empty" - there is no basis for comparison

### Locations

Nº	The RF Regions
1	Irkutsk region
2	Leningrad region
3	Moscow region
4	Nizhny Novgorod region
5	Novosibirsk region
6	Republic of Bashkortostan (Salavat, Ufa)
7	Republic of Tatarstan (Kazan)
8	Rostov region
9	Samara region
10	Sverdlovsk region
11	Stavropol region
12	Tomsk region



## SPOT MARKET PRICES HIGH DENSITY POLYETHYLENE (HDPE)

### Contents

Price assessments of high density polyethylene (HDPE) produced in Russia or abroad on the local spot market of physical commodity in the largest consumption regions. Prices are published in the Thomson Reuters Information Systems and the "Spot market prices of the Russian. High density polyethylene (HDPE) " bulletin.

### Data Source

Market participants of the local petrochemical spot market.

### Market Players

Representatives of the petrochemical companies, dealers, distributors, traders, end-users engaged in the sale and / or purchase of HDPE in the regional spot markets.

Price monitoring involves the maximum possible number of market participants.

### Data considered for assessment

Information about bids and offers provided by the Market Players and/or actual deals.

### Data Collection Methods

Polling of market participants via phone, Getting information through communication channels.

### Data Reliability

Data reliability is ensured through the collection and analysis of similar type of information obtained simultaneously from different sources. The price level is determined on the basis of the information about bids and offers received from reliable sources (buyers and sellers).

All sale/purchase deals and/or offers are thoroughly analyzed by experts. Anonymity of respondents is guaranteed. Non-standard transactions and / or bids and offers that deviate significantly from the typical market prices are not included in the evaluation process.

### Prices

Prices are given in thousand roubles per ton including VAT.

### Price Range

Price range corresponds to the minimum and maximum prices of supply and demand obtained as a result of monitoring.

### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  – a number of basis involved in the average price calculation

### Relevance

Prices are effective as of period specified in the bulletin.

### Frequency of update

Twice per month (the second and the fourth Friday of a month).

### Lot Size

10-20 tons

### Delivery Basis

EXW – Ex Works (producer's warehouse).

EXW - Ex Works (seller's warehouse).

### Groups of Market Products

High density polyethylene (HDPE)

### Product Range

The bulletin indicated the product grades, delivery terms and regions for which prices have been obtained as a result of monitoring.

### Comments

Overview of the most significant events on the market.

### Standard Comments

(\*) according to the majority of market participants, these products are not available in those regions of Russia on Ex Works producer's warehouse terms;

(\*\*) according to the majority of market participants, these products are not available in those regions of Russia on Ex Works seller's warehouse terms.

Additional Comments can be used to reflect the changes in the market conditions.

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system

### Legend

"Δ" - average prices' alteration with regard to the previous period

"+" - prices' growth

"-" - prices' fall

"+0" - unchanged

"empty" – there is no basis for comparison

### Locations

№	The RF Regions
1	Irkutsk region
2	Leningrad region
3	Moscow region
4	Nizhny Novgorod region
5	Novosibirsk region
6	Republic of Bashkortostan (Salavat)
7	Republic of Tatarstan (Kazan, Nizhnekamsk, Naberezhnye Chelny)
8	Rostov region
9	Samara region
10	Sverdlovsk region
11	Stavropol region

## SPOT MARKET PRICES

## LOW DENSITY POLYETHYLENE (LDPE) (Moscow Region and Leningrad Region)

**Contents**

Price assessments of low density polyethylene (LDPE) produced in Russia or abroad on the local spot market of physical commodity. Prices are published in the Thomson Reuters Information Systems and the "Spot market prices of the Russian. Low-density polyethylene (LDPE) (Moscow Region and Leningrad Region)" bulletin.

**Data Source**

Market participants of the local petrochemical spot market.

**Market Players**

Representatives of the petrochemical companies, dealers, distributors, traders, end-users engaged in the sale and / or purchase of LDPE in the regional spot markets. Price monitoring involves the maximum possible number of market participants.

**Data considered for assessment**

Information about bids and offers provided by the Market Players and/or actual deals.

**Data Collection Methods**

Polling of market participants via phone. Getting information through communication channels.

**Data Reliability**

Data reliability is ensured through the collection and analysis of similar type of information obtained simultaneously from different sources. The price level is determined on the basis of the information about bids and offers received from reliable sources (buyers and sellers).

All sale/purchase deals and/or offers are thoroughly analyzed by experts. Anonymity of respondents is guaranteed. Non-standard transactions and / or bids and offers that deviate significantly from the typical market prices are not included in the evaluation process.

**Prices**

Prices are given in thousand roubles per ton including VAT.

**Price Range**

Price range corresponds to the minimum and maximum prices of supply and demand obtained as a result of monitoring.

**Terms of Payment**

Payment in cash (prepayment or Letter of Credit).

**Average Price**

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  – a number of basis involved in the average price calculation

**Relevance**

Prices are effective as of period specified in the bulletin.

**Frequency of update**

Twice per month (the first and the third Friday of a month).

**Lot Size**

10-20 tons

**Delivery Basis**

EXW - Ex Works (seller's warehouse).

**Groups of Market Products**

Low density polyethylene (LDPE)

**Product Range**

The bulletin indicated the product grades and regions for which prices have been obtained as a result of monitoring.

**Standard Comments**

(\*\*) according to the majority of market participants, these products are not available in those regions of Russia on Ex Works seller's warehouse terms.

Additional Comments can be used to reflect the changes in the market conditions.

**Blank price assessment**

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system

**Legend**

"Δ" - average prices' alteration with regard to the previous period

"+" - prices' growth

"-" - prices' fall

"+O" - unchanged

"empty" – there is no basis for comparison

**Locations**

Nº	The RF Regions
1	Leningrad region
2	Moscow region

## SPOT MARKET PRICES

## HIGH DENSITY POLYETHYLENE (HDPE) (Moscow Region and Leningrad Region)

**Contents**

Price assessments of high density polyethylene (HDPE) produced in Russia or abroad on the local spot market of physical commodity. Prices are published in the Thomson Reuters Information Systems and the "Spot market prices of the Russian. High-density polyethylene (HDPE) (Moscow Region and Leningrad Region)" bulletin.

**Data Source**

Market participants of the local petrochemical spot market

**Market Players**

Representatives of the petrochemical companies, dealers, distributors, traders, end-users engaged in the sale and / or purchase of HDPE in the regional spot markets. Price monitoring involves the maximum possible number of market participants.

**Data considered for assessment**

Information about bids and offers provided by the Market Players and/or actual deals.

**Data Collection Methods**

Polling of market participants via phone. Getting information through communication channels.

**Data Reliability**

Data reliability is ensured through the collection and analysis of similar type of information obtained simultaneously from different sources. The price level is determined on the basis of the information about bids and offers received from reliable sources (buyers and sellers).

All sale/purchase deals and/or offers are thoroughly analyzed by experts. Anonymity of respondents is guaranteed. Non-standard transactions and / or bids and offers that deviate significantly from the typical market prices are not included in the evaluation process.

**Prices**

Prices are given in thousand roubles per ton including VAT.

**Price Range**

Price range corresponds to the minimum and maximum prices of supply and demand obtained as a result of monitoring.

**Terms of Payment**

Payment in cash (prepayment or Letter of Credit).

**Average Price**

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  – a number of basis involved in the average price calculation

**Relevance**

Prices are effective as of period specified in the bulletin.

**Frequency of update**

Twice per month (the first and the third Friday of a month).

**Lot Size**

10-20 tons

**Delivery Basis**

EXW - Ex Works (seller's warehouse).

**Groups of Market Products**

High density polyethylene (HDPE)

**Product Range**

The bulletin indicated the product grades and regions for which prices have been obtained as a result of monitoring.

**Standard Comments**

(\*\*) according to the majority of market participants, these products are not available in those regions of Russia on Ex Works seller's warehouse terms. Additional Comments can be used to reflect the changes in the market conditions.

**Blank price assessment**

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system

**Legend**

"Δ" - average prices' alteration with regard to the previous period

"+" - prices' growth

"-" - prices' fall

"+0" - unchanged

"empty" – there is no basis for comparison

**Locations**

Nº	The RF Regions
1	Leningrad region
2	Moscow region

## SPOT MARKET PRICES SUSPENSION POLYVINYL CHLORIDE

### Contents

- suspension PVC prices offered by producers or their trade representatives in the local spot markets of physical commodity;
- seller spot market prices for domestic and imported suspension PVC.

Prices are published in the Thomson Reuters Information Systems and the "Spot market prices of the Russian. Suspension PVC" bulletin.

### Data Source

Market participants of the local petrochemical spot market.

### Market Players

Representatives of the petrochemical companies, dealers, distributors, traders, end-users engaged in the sale and / or purchase of suspension PVC in the local spot market. Price monitoring involves the maximum possible number of market participants.

### Data considered for assessment

Information about bids and offers provided by the Market Players and/or actual deals

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels

### Data Reliability

Information about prices of producers and their representatives reflects the overall level of suspension PVC prices. Actual sales undertaken both by petrochemical companies themselves and by dealers, distributors and traders can be done at higher or lower prices.

Data reliability is ensured through the collection and analysis of similar type of information obtained simultaneously from different sources. The price level is determined on the basis of the information about bids and offers received from reliable sources (buyers and sellers).

All sale/purchase deals and/or offers are thoroughly analyzed by experts. Anonymity of respondents is guaranteed. Non-standard transactions and / or bids and offers that deviate significantly from the typical market prices are not included in the evaluation process.

### Prices

Prices are given in roubles per ton including VAT

### Price Range

Price range corresponds to the minimum and maximum prices of supply and demand obtained as a result of monitoring

### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Relevance

Prices are relevant as of the bulletin publication date

### Frequency of update

On 10th and 25th monthly

### Lot Size

Offer prices of producers and their trade representatives - 10 to 50 tons

Spot market prices - 1 to 20 tons

### Delivery Basis

- CPT – Carriage Paid to Moscow. If other delivery terms are used, the relevant Comments shall be provided in the bulletin.

- EXW - Ex Works (seller's warehouse - Moscow/Leningrad regions).

### Groups of Market Products

Suspension polyvinyl chloride (PVC-S)

### Product Range

The bulletin indicated the product grades, delivery terms and regions for which prices have been obtained as a result of monitoring

### Comments

Overview of the most significant events on the market

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system

### Legend and Comments

"Δ" - average prices' alteration with regard to the previous period

"+" - prices' growth

"-" - prices' fall

"+0" - unchanged

"empty" – there is no basis for comparison

Additional Comments can be used to reflect the changes in the market conditions

### Locations

Moscow city

Moscow region

Leningrad region



## SPOT MARKET PRICES POLYPROPYLENE (PP)

### Contents

Price assessments of polypropylene (PP) produced in Russia or abroad on the local spot market of physical commodity in the largest consumption regions. Prices are published in the Thomson Reuters Information Systems and the "Spot market prices of the Russian. Polypropylene (PP)" bulletin.

### Data Source

Market participants of the local petrochemical spot market

### Market Players

Representatives of the petrochemical companies, dealers, distributors, traders, end-users engaged in the sale and / or purchase of polypropylene (PP) in the regional spot markets.

Price monitoring involves the maximum possible number of market participants.

### Data considered for assessment

Information about bids and offers provided by the Market Players and/or actual deals

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Data reliability is ensured through the collection and analysis of similar type of information obtained simultaneously from different sources. The price level is determined on the basis of the information about bids and offers received from reliable sources (buyers and sellers).

All sale/purchase deals and/or offers are thoroughly analyzed by experts. Anonymity of respondents is guaranteed. Non-standard transactions and / or bids and offers that deviate significantly from the typical market prices are not included in the evaluation process.

### Prices

Prices are given in thousand roubles per ton including VAT.

### Price Range

Price range corresponds to the minimum and maximum prices of supply and demand obtained as a result of monitoring.

### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  - minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  - a number of basis involved in the average price calculation

### Relevance

Prices are effective as of period specified in the bulletin

### Frequency of update

Twice a month (the second and fourth Friday of the month).

### Lot Size

10-20 tons

### Delivery Basis

EXW – Ex Works (producer's warehouse).

EXW - Ex Works (seller's warehouse).

### Groups of Market Products

- homopolymers
- block copolymers
- random copolymers

### Product Range

The bulletin indicated the product grades, delivery terms and regions for which prices have been obtained as a result of monitoring

### Comments

Overview of the most significant events on the market

### Standard Comments

(\*) according to the majority of market participants, these products are not available in those regions of Russia on Ex Works producer's warehouse terms;

(\*\*) according to the majority of market participants, these products are not available in those regions of Russia on Ex Works seller's warehouse terms.

Additional Comments can be used to reflect the changes in the market conditions.

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system

### Legend

"Δ" - average prices' alteration with regard to the previous period

"+" - prices' growth

"-" - prices' fall

"+0" - unchanged

"empty" – there is no basis for comparison

g. - grade

### Locations

N <sup>o</sup>	The RF Regions
1	Leningrad region
2	Moscow region
3	Nizhny Novgorod region
4	Novosibirsk region
5	Tomsk region
6	Republic of Bashkortostan (Ufa)
7	Republic of Tatarstan (Kazan, Nizhnekamsk, Naberezhnye Chelny)
8	Rostov region
9	Samara region
10	Sverdlovsk region
11	Stavropol region
12	Tomsk region
13	Tyumen region (Tobolsk)

## SPOT MARKET PRICES POLYPROPYLENE (PP) (Moscow Region and Leningrad Region)

### Contents

Price assessments of polypropylene (PP) produced in Russia or abroad on the local spot market of physical commodity. Prices are published in the Thomson Reuters Information Systems and the "Spot market prices of the Russian. Polypropylene (PP) (Moscow Region and Leningrad Region)" bulletin

### Data Source

Market participants of the local petrochemical spot market

### Market Players

Representatives of the petrochemical companies, dealers, distributors, traders, end-users engaged in the sale and / or purchase of polypropylene (PP) in the regional spot markets.

Price monitoring involves the maximum possible number of market participants.

### Data considered for assessment

Information about bids and offers provided by the Market Players and/or actual deals

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Data reliability is ensured through the collection and analysis of similar type of information obtained simultaneously from different sources. The price level is determined on the basis of the information about bids and offers received from reliable sources (buyers and sellers).

All sale/purchase deals and/or offers are thoroughly analyzed by experts. Anonymity of respondents is guaranteed. Non-standard transactions and / or bids and offers that deviate significantly from the typical market prices are not included in the evaluation process.

### Prices

Prices are given in thousand roubles per ton including VAT.

### Price Range

Price range corresponds to the minimum and maximum prices of supply and demand obtained as a result of monitoring.

### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  – a number of basis involved in the average price calculation

### Relevance

Prices are effective as of period specified in the bulletin

### Frequency of update

Twice a month (the first and third Friday of the month).

### Lot Size

10 - 20 tons

### Delivery Basis

EXW - Ex Works (seller's warehouse).

### Groups of Market Products

- homopolymers
- block copolymers
- random copolymers

### Product Range

The bulletin indicated the product grades and regions for which prices have been obtained as a result of monitoring

### Standard Comments

(\*\*) according to the majority of market participants, these products are not available in those regions of Russia on Ex Works seller's warehouse terms. Additional Comments can be used to reflect the changes in the market conditions.

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system

### Legend

"Δ" - average prices' alteration with regard to the previous period

"+" - prices' growth

"-" - prices' fall

"+O" - unchanged

"empty" – there is no basis for comparison

### Locations

Nº	The RF Regions
1	Leningrad region
2	Moscow region

## SPOT MARKET PRICES POLYSTYRENE (PS)

### Contents

Price assessments of polystyrene (PS) produced in Russia or abroad on the local spot market of physical commodity in the largest consumption regions. Prices are published in the Thomson Reuters Information Systems and the "Spot market prices of the Russian. Polystyrene (PS)" bulletin.

### Data Source

Market participants of the local petrochemical spot market.

### Market Players

Representatives of the petrochemical companies, dealers, distributors, traders, end-users engaged in the sale and / or purchase of polystyrene (PS) in the regional spot markets.

Price monitoring involves the maximum possible number of market participants.

### Data considered for assessment

Information about bids and offers provided by the Market Players and/or actual deals.

### Data Collection Methods

Polling of market participants via phone. Getting information through communication channels.

### Data Reliability

Data reliability is ensured through the collection and analysis of similar type of information obtained simultaneously from different sources. The price level is determined on the basis of the information about bids and offers received from reliable sources (buyers and sellers).

All sale/purchase bargains and/or offers shall be subject to compulsory expertise. Anonymity of respondents is guaranteed. Non-standard transactions and / or bids and offers that deviate significantly from the typical market prices are not included in the evaluation process.

### Prices

Prices are given in thousand roubles per ton including VAT.

### Price Range

Price range corresponds to the minimum and maximum prices of supply and demand obtained as a result of monitoring.

### Terms of Payment

Payment in cash (prepayment or Letter of Credit)

### Average Price

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  – a number of basis involved in the average price calculation

### Relevance

Prices are effective as of period specified in the bulletin.

### Frequency of update

Twice a month (the first and third Friday of the month).

### Lot Size

10-20 tons

### Delivery Basis

- EXW – Ex Works (producer's warehouse).
- EXW - Ex Works (seller's warehouse).

### Groups of Market Products

- Expandable polystyrene (EPS)
- General-purpose polystyrene (GPPS)
- High-impact polystyrene (HIPS)

### Product Range

The bulletin indicated the product grades, delivery terms and regions for which prices have been obtained as a result of monitoring.

### Comments

Overview of the most significant events on the market.

### Standard Comments

(\*) according to the majority of market participants, these products are not available in those regions of Russia on Ex Works producer's warehouse terms;

(\*\*) according to the majority of market participants, these products are not available in those regions of Russia on Ex Works seller's warehouse terms.

Additional Comments can be used to reflect the changes in the market conditions.

### Blank price assessment

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system

### Legend

"Δ" - average prices' alteration with regard to the previous period

"+" - prices' growth

"-" - prices' fall

"+0" - unchanged

"empty" – there is no basis for comparison

t/g - top grade

1 s. – 1st sort

nat. – natural colour

dis. - dissipated

fr. - fraction

### Locations

Nº	The RF Regions
1	Irkutsk region
2	Leningrad region
3	Moscow region
4	Republic of Tatarstan (Nizhnekamsk)
5	Perm region
6	Republic of Bashkortostan (Salavat)
7	Tula region

## SPOT MARKET PRICES

## LINEAR LOW DENSITY POLYETHYLENE (LLDPE) (Moscow Region)

**Contents**

Price assessments of Linear Low Density Polyethylene (LLDPE) produced in Russia or abroad on the local spot market of physical commodity. Prices are published in the Thomson Reuters Information Systems and the "Spot market prices of the Russian. Linear Low Density Polyethylene (LLDPE) (Moscow Region)" bulletin

**Data Source**

Market participants of the local petrochemical spot market.

**Market Players**

Representatives of the petrochemical companies, dealers, distributors, traders, end-users engaged in the sale and / or purchase of LLDPE in the local spot markets.

Price monitoring involves the maximum possible number of market participants.

**Data considered for assessment**

Information about bids and offers provided by the Market Players and/or actual deals.

**Data Collection Methods**

Polling of market participants via phone. Getting information through communication channels.

**Data Reliability**

Data reliability is ensured through the collection and analysis of similar type of information obtained simultaneously from different sources. The price level is determined on the basis of the information about bids and offers received from reliable sources (buyers and sellers).

All sale/purchase deals and/or offers are thoroughly analyzed by experts. Anonymity of respondents is guaranteed. Non-standard transactions and / or bids and offers that deviate significantly from the typical market prices are not included in the evaluation process.

**Prices**

Prices are given in thousand roubles per ton including VAT.

**Price Range**

Price range corresponds to the minimum and maximum prices of supply and demand obtained as a result of monitoring.

**Terms of Payment**

Payment in cash (prepayment or Letter of Credit)

**Average Price**

A price that equals to arithmetic mean value of prices obtained as a result of monitoring.

$$P_{avg} = \frac{\sum_{i=1}^N \left( \frac{P_{min}^i + P_{max}^i}{2} \right)}{N}$$

$P_{min}^i - P_{max}^i$  – minimum and maximum price of  $i$ 's basis involved in the average price calculation  
 $N$  – a number of basis involved in the average price calculation

**Relevance**

Prices are effective as of period specified in the bulletin.

**Frequency of update**

Twice a month (the first and third Friday of the month).

**Lot Size**

10-20 tons

**Delivery Basis**

EXW - Ex Works (seller's warehouse).

**Groups of Market Products**

Linear Low Density Polyethylene (LLDPE)

**Product Range**

The bulletin indicated the product grades for which prices have been obtained as a result of monitoring.

**Standard Comments**

Additional Comments can be used to reflect the changes in the market conditions.

**Blank price assessment**

In case if the price assessment is temporarily not updated the current value of the price assessment will be marked as UNQ (UNQUOTED) in the system

**Legend**

"Δ" - average prices' alteration with regard to the previous period

"+" - prices' growth

"-" - prices' fall

"+0" - unchanged

"empty" – there is no basis for comparison

**Locations**

Moscow region

**CONTACTS**

support.kortes@thomsonreuters.com

19, Leninskaya sloboda, Moscow, Russia 115280

Phone: +7 495 961-01-89

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