

Product Catalogue

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Uralkali today

Uralkali is a leading vertically integrated producer of potash.

Uralkali's production is located at the Verkhnekamskoye potassium and magnesium salt field at Berezniki and Solikamsk, Perm Region, the world's second largest field in terms of ore reserves.

The company is one of the world's largest potash producers and controls its entire production chain, from potash ore mining through to the supply of potash to customers.

Uralkali products are distributed through a global sales network which combines access to all the main regions of potash consumption.

Uralkali exports its products to key regions around the world.

Assets of Uralkali

The Company's mining operations comprise five mines, six potash plants and one carnallite plant.



Baltic Bulk Terminal
(St. Petersburg city)



Warehouse facilities with a capacity
of over 1 million tonnes



A fleet of 7,7 thousand
specialised mineral railcars

Products

Uralkali enriches potash ore using the crystallization and flotation methods



Uralkali's products comply with the best international quality standards. Independent inspection is arranged at each loading port to ensure the highest quality of our products.



Uralkali has been recognized as an Industry Stewardship Champion 2020, 2021 by the International Fertilizer Association (IFA), for the Company's outstanding achievements in product stewardship.

Conformance to GOST R 58658-019 – Fertiliser with Improved Characteristics

Standard products

Pink Granular MOP 60% K ₂ O	2
Pink Standard MOP 60% K ₂ O	3
White Standard MOP 60% K ₂ O	4
White Standard MOP 62% K ₂ O	5
White Fine MOP 60% K ₂ O	6
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MOP

Pink Granular 60% K₂O

- direct-application fertilizer
- bulk blends production



Chemical Analysis

Component	Typical, %	Guarantee, %
Potassium chloride (KCl)	95.8	95 min
in terms of K ₂ O	60.4	60 min
in terms of K	50.1	
Sodium chloride (NaCl)	3.0	
in terms of Na	1.2	
Magnesium (Mg)	0.01	
Calcium (Ca)	0.16	
Insolubles in water	0.6	
Moisture	0.04	0.5 max
Anticaking agent	Added	

Available package:



Granulometry

Standard, mm	Cumulative wt%	
	Typical	Range
+4	6.8	10 max
-2	3.0	10 max
-1	0.3	2 max
-0.5	0.1	0.5 max
	Typical	
Size Guide Number (SGN)	300	
Uniformity Index (UI)	54	

Physical Properties

Bulk density	1000 – 1100 kg/m ³
Angle of repose	26 – 40 degrees

*Product analyses are typical as tested at the mine site.

**Handling and transportation may affect the analysis of the delivered product.

MOP

Pink Standard 60% K₂O

- direct-application fertilizer
- production of complex fertilizers
- metallurgy

Chemical Analysis

Component	Typical, %	Guarantee, %
Potassium chloride (KCl)	95.8	95 min
in terms of K ₂ O	60.4	60 min
in terms of K	50.1	
Sodium chloride (NaCl)	2.9	
in terms of Na	1.1	
Magnesium (Mg)	0.01	
Calcium (Ca)	0.16	
Insolubles in water	0.6	
Moisture	0.1	0.5 max
Anticaking agent	Added	

Available package:



Granulometry***

Standard, mm	Cumulative wt%	
	Range	
+1.7	0 – 2.1	
+1.0	3 – 24	
+0.63	24 – 48	
+0.4	48 – 69	
+0.25	65 – 85	
+0.2	73 – 92	
+0.1	87 – 99	
	Typical	Range
Size guide number (SGN)	48	36 – 71

Physical Properties***

Bulk density	1010 – 1190 kg/m ³
Angle of repose	29 – 39 degrees



*Product analyses are typical as tested at the mine site.

**Handling and transportation may affect the analysis of the delivered product.

***Summarized data for products of different mines.

MOP

White Standard 60% K₂O

- production of complex fertilizers
- metallurgy

Chemical Analysis

Component	Typical, %	Guarantee, %
Potassium chloride (KCl)	97.4	95 min
in terms of K ₂ O	61.4	60 min
in terms of K	51.0	
Sodium chloride (NaCl)	2.4	
in terms of Na	1.0	
Magnesium (Mg)	0.01	
Calcium (Ca)	0.01	
Insolubles in water	0.01	
Moisture	0.05	0.5 max
Anticaking agent	Added	

Available package:



Granulometry

Standard, mm	Cumulative wt%	
	Typical	Range
+1.7	0.4	0 – 2.1
+1	9.1	2 – 18
+0.63	36	17 – 54
+0.4	73	58 – 89
+0.2	95	91 – 99
+0.1	99.3	99 – 100
	Typical	
Size guide number (SGN)	55	

Physical Properties

Bulk density	1080 – 1180 kg/m ³
Angle of repose	25 – 29 degrees

*Product analyses are typical as tested at the mine site.

**Handling and transportation may affect the analysis of the delivered product.

MOP

White Standard 62% K₂O

- production of complex fertilizers
- production of potassium nitrate (NOP)
- water-soluble/liquid fertilizer
- metallurgy
- metal galvanization
- water softener

Chemical Analysis

Component	Typical, %	Guarantee, %
Potassium chloride (KCl)	98.4	98.2 min
in terms of K ₂ O	62.1	62 min
in terms of K	51.5	
Sodium chloride (NaCl)	1.5	
in terms of Na	0.6	
Magnesium (Mg)	0.01	
Calcium (Ca)	0.01	
Bromide (Br ⁻)	0.08	
Insolubles in water	0.01	
Moisture	0.05	0.5 max
Anticaking agent	Added	

Available package:



Granulometry

Standard, mm	Cumulative wt%	
	Typical	Range
+1.7	0.1	0 – 0.2
+1	4.0	2 – 7
+0.63	29	23 – 40
+0.4	70	64 – 81
+0.2	97	95 – 99
+0.1	99.6	99 – 100
	Typical	
Size guide number (SGN)	52	

Physical Properties

Bulk density	1090 – 1160 kg/m ³
Angle of repose	24 – 35 degrees

*Product analyses are typical as tested at the mine site.

**Handling and transportation may affect the analysis of the delivered product.

MOP

White Fine 60% K₂O

- production of complex fertilizers

Chemical Analysis

Component	Typical, %	Guarantee, %
Potassium chloride (KCl)	97.3	95 min
in terms of K ₂ O	61.4	60 min
in terms of K	50.9	
Sodium chloride (NaCl)	2.5	
in terms of Na	1.0	
Magnesium (Mg)	0.01	
Calcium (Ca)	0.01	
Insolubles in water	0.03	
Moisture	0.03	1.0 max
Anticaking agent	Added	

Available package:



Granulometry

Standard, mm	Cumulative wt%	
	Typical	Range
+1	0.1	0 – 0.2
+0.63	0.3	0.1 – 0.5
+0.4	3.8	2 – 6
+0.2	58	26 – 50
+0.1	83	71 – 93
+0.063	98	89 – 98
	Typical	
Size guide number (SGN)	18	

Physical Properties

Bulk density	990 – 1120 kg/m ³
Angle of repose	28 – 30 degrees

*Product analyses are typical as tested at the mine site.

**Handling and transportation may affect the analysis of the delivered product.

MOP

White Fine 62% K₂O (Grade A)

- production of potassium sulphate (SOP)
- water-soluble/liquid fertilizer

Chemical Analysis

Component	Typical, %	Guarantee, %
Potassium chloride (KCl)	98.8	98.2 min
in terms of K ₂ O	62.3	62 min
in terms of K	51.7	
Sodium chloride (NaCl)	1.1	1.3 max
in terms of Na	0.4	
Magnesium (Mg)	0.01	
Calcium (Ca)	0.01	
Sulfate (SO ₄ ²⁻)	0.01	
Bromide (Br ⁻)	0.09	
Insolubles in water	0.04	
Moisture	0.02	0.5 max
Anticaking agent	Added	

Available package:



Granulometry

Standard, mm	Cumulative wt%	
	Typical	Range
+1	0.1	0 – 0.3
+0.63	0.2	0 – 0.5
+0.4	3.3	1 – 5
+0.2	41	31 – 53
+0.1	86	78 – 94
+0.063	96	92 – 98
	Typical	
Size guide number (SGN)	18	

Physical Properties

Bulk density	1020 – 1110 kg/m ³
Angle of repose	29 – 31 degree

*Product analyses are typical as tested at the mine site.

**Handling and transportation may affect the analysis of the delivered product.

MOP

White Fine 62% K₂O (Grade B)

- production of potassium sulphate (SOP)
- water-soluble/liquid fertilizer

Chemical Analysis

Component	Typical, %	Guarantee, %
Potassium chloride (KCl)	98.6	98.2 min
in terms of K ₂ O	62.2	62 min
in terms of K	51.6	
Sodium chloride (NaCl)	1.2	1.6 max
in terms of Na	0.5	
Magnesium (Mg)	0.01	
Calcium (Ca)	0.01	
Sulfate (SO ₄ ²⁻)	0.01	
Bromide (Br ⁻)	0.08	
Insolubles in water	0.03	
Moisture	0.02	0.5 max
Anticaking agent	Added	

Available package:



Bags

Big-bags

Bulk

Granulometry

Standard, mm	Cumulative wt%	
	Typical	Range
+1	0.1	0 – 0.2
+0.63	0.2	0 – 0.5
+0.4	3.6	2 – 5
+0.2	41	33– 51
+0.1	86	77 – 92
+0.063	96	92 – 99
	Typical	
Size guide number (SGN)	18	

Physical Properties

Bulk density	1010 – 1140 kg/m ³
Angle of repose	27 – 30 degree

*Product analyses are typical as tested at the mine site.

**Handling and transportation may affect the analysis of the delivered product.

Potassium Chloride Pellets

- production of potassium hydroxide (caustic potash)
- water softener

Chemical Analysis

Component	Typical, %	Guarantee, %
Potassium chloride (KCl)	98.8	98.2 min
Sodium chloride (NaCl) in terms of Na	1.1 0.4	1.3 max
Magnesium (Mg)	35 ppm	
Calcium (Ca)	90 ppm	
Sulfate (SO ₄ ²⁻)	90 ppm	
Bromide (Br ⁻)	900 ppm	
Insolubles in water	0.03	
Moisture		0.5 max
Anticaking agent	No	

Available package:



Granulometry

Standard, mm	Cumulative wt%
+30	5 max
4-30	90 min
-4	5 max

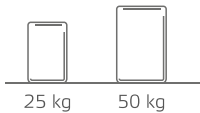
*Product analyses are typical as tested at the mine site.

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Drip KALI

MOP 0-0-62
for irrigation systems

Available package:



Chemical Analysis

Component	Typical, %	Guarantee, %
Water soluble potash (expressed as K_2O)		62 min
Insolubles in water	0.01	
Moisture content		0.5 max
Granulometric composition: less than 2 mm	100	

- 100% water-soluble
- Maximum concentration of K_2O
- Compatible with all types of water soluble fertilizers
- Safe for irrigation system
- No heavy metals
- No dust
- 100% friability



PETROKALI

Potassium Chloride for drilling fluids

Available package:



- Stabilizes water sensitive clays and shales
- Allows producing well-killing fluids of up to 1170 kg/m³ density
- Compatible with most drilling fluid additives
- High chemical purity
- 100% solubility in water

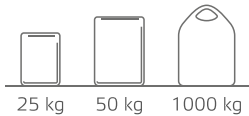
Chemical Analysis

Component	Typical, %	Guarantee, %
Potassium chloride (KCl)		98.2 min
Insolubles in water	0.01	
Moisture content		0.5 max
Granulometric composition less than 2 mm	100	

FeedKALI

Potassium Chloride for animal nutrition

Available package:



25 kg 50 kg 1000 kg

Chemical Analysis

Component	Typical, %	Guarantee, %
Potassium chloride (KCl) in terms of K	98.4 51.5	98.2 min
Sodium chloride (NaCl) in terms of Na	1.5 0.6	
in terms of Cl (total)	47.8	
Moisture content		0.5 max
Granulometric composition less than 2 mm	100	



- High content of potassium (K) – 51.5%
- Uniform particle size
- No heavy metals
- 100% friability
- Certified for animal nutrition





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