



FERTILIZERS AND CHEMICALS



Product characteristics mentioned below are typical and minor variations, which do not affect product performance are to be expected in normal production. The information is believed to be correct at the time of publication. The information contained herein are based on the grade's past history and is not a guarantee of performance. No warranty expressed or implied is given on the accuracy of the information or suitability of the products. Seller reserves the right to modify and change specifications without prior notice. Always follow HAZMAT recommendations of respective national authorities where the products are being handled and stored.

PRODUCT: Magnesium Oxide (MgO)

PRODUCT DATA SHEET

APPLICATION: Food grade MgO is mainly used in food additives, colour stabilizing agent, PH regulator etc. Medical grade MgO mainly used in the field of biological pharmacy as antacids, adsorbent, desulfurizer, de-leading reagent, complexing filter aid, PH regulator, disease treatment etc. Besides other industrial use wherein high purity MgO is moderately reactive and uniformly burned to provide a higher recovery of valuable metals from ore extraction such as cobalt, nickel and copper from acid leach solutions.

SYNONYMS: Magnesia

PACKAGING: In 25/50/1000/1250 Kg moisture-proof PP / HDPE / Jumbo Bags.

SPECIFICATIONS Meets European, American & GB 1886.216-2016 standards

Appearance Pinkish White or White

powder/granular

Mesh Size 200 Mesh Powder

Molecular Weight 40.305	Iron Oxide (Fe ₂ O ₃) Max 0.6%
Purity (MgO) Min 95%	Silica (SiO ₂) Max 0.6%
Calcium Oxide (CaO) Max 2.0%	Reactivity (Citric Acid Test) 14-20 sec
Aluminium Oxide (Al ₂ O ₃) Max 0.2%	Loss on ignition (LOI) 1 -3%

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PRODUCT: Sulphur Granular, Lump, Powder

PRODUCT DATA SHEET

sulphur is one of the most important agro - industrial raw materials. Today, most elemental sulphur is obtained as a by-product recovered from Oil & Gas production in the sweetening process and considered a strategic product.

APPLICATION: Major derivative is sulphuric acid (H₂SO₄). Sulphur is also directly or indirectly used in batteries, solvents, detergents, fungicides, and vulcanisation of rubber. Further, utilised in the manufacturing of phosphate fertilizers, synthetic fibres, cosmetics, gun power, matches and in a host of other products of chemical, pharmaceutical and manufacturing industries.

PACKAGING: Offered in 1000/1250 Kg moisture-proof Jumbo Bags and Bulk.

Mass fraction of sulphur 99.80% (Min) 99.80 % (Min)

Organic Ash weight 0.07 % (Max) 0.04 % (Max)

Inorganic Ash weight 0.03 % (Max) 0.01 % (Max)

Moisture weight 0.50 % (Max) 0.50 % (Max)

Mechanical impurities Absent

Colour Bright Yellow

2-11 mm=95% [3-6 mm = 80% / 1-3 mm = 5%

Angle of Repose = 33° Density (Kg/m³) = 1150 (Min)

PRODUCT: Sulphuric Acid (H₂SO₄.)

PRODUCT DATA SHEET

A mineral acid composed of the elements sulphur, oxygen and hydrogen. It is a colourless, odourless, and viscous liquid that is soluble in water and is synthesized in reactions that are highly exothermic. If corrosiveness is due to its strong acidic nature and at high concentrations, its dehydrating & oxidizing properties. It is also hygroscopic, readily absorbing water vapor from the air.

APPLICATION: It is a colourless oily liquid which is soluble in water with release of heat. It is corrosive to metals and tissue. It will char wood and most other organic matter on contact but is unlikely to cause a fire. Primarily used in production of fertilizers, dyes and other chemicals for industrial explosives, petroleum refining, etching in iron and steel production, leaching in metal mining for copper, zinc, nickel & cobalt minerals. It also finds itself applicable across industries like pharma, water treatment, cleaning, agriculture, food & animal nutrition, coatings & construction, cosmetics, polymers, rubber etc.

SYNONYMS: Hydrogen Sulphate, Vitriol Brown Oil, Dipping Acid, Battery Acid, sulphuric Acid 66BE etc.

PACKAGING: Offered in IBC tanks and Drums.

STORAGE AND HANDLING RECOMMENDATIONS:

Do not store near combustible materials or store in direct sunlight. Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep and store away from metals, alkalies and organic materials. Inspect periodically for damage or evidence of leaks or corrosion.

PRODUCT: Urea Granular & Prilled

PRODUCT DATA SHEET

APPLICATION: It is available in two grades - Grade A for industrial use and Grade B for agriculture. Industrial applications include metal treatment, tanneries, water treatment, glue & resins, wood industry, health & beauty products, construction etc. While Feed Grade Urea is also deployed as animal feed, a nutritional additive used in diets for ruminant livestock such as cattle, sheep and goats, promoting feed digestibility and intake. It is a colourless, odourless solid, highly soluble in water, and practically non-toxic and when dissolved in water, it is neither acidic nor alkaline.

SYNONYMS: Carbamide, Basodexan, Carmol etc.

PACKAGING: Offered in 25/50/1000 Kg moisture-proof PP/HDPE Bags & Bulk.

SPECIFICATIONS: Urea Granular

CHARACTERISTICS	STANDARD
Fraction of nitrogen in dry substance, %, not less than	46.2
Mass fraction of biuret, %, not more than	1
Mass fraction of water, %, not more than:	
- Hygroscopic	0.3
- General	0.5
Mealiness %	100
Dimensions of granules, %:	
Mass fraction of granules size, mm:	
- From 1 to 4, not less	94
- From 2 to 4, not less	70
- Less than 1, not more	3
- Screen residue, 6 mm, not more	Absent
Static strength of granules, MPa (kg / cm ²), not less than	1.4 (14)
or in terms of 1 granule, N, (kgf), not less than	0.7 (7)

SPECIFICATIONS: Urea Prilled

CHARACTERISTICS	TEST METHOD	LIMITS	VALUE
Nitrogen Content, Wt%	BS DIN EN 15479	Min 46.0	46.21
Biuret Content, Wt%	BS DIN EN 15479	Max 1.0	0.94
Moisture, Wt%	ISO 760	Max 0.3	0.14
Particle Size, %	ISO 8397	Min 92	98.1
Formaldehyde, %	ISO H.F.T 1.6 and SBB 0071-02-E	Max 0.4	0.23
Formaldehyde in Industrial Urea, PPM		Max 100	10
Ant-Cake, PPM	Eurasoft Method	Max 1000	347
Anti-Cake in Industrial Urea, PPM	Eurasoft Method	Max 25	<25