High Purity Magnesia for Chemical Applications

SIG

Magnesium Oxide - Special Industrial Grade

A versatile grade extensively used for the production of high purity magnesium compounds. SIG is ideal as a raw material where very high purity and low-to-moderate reactivity are required.

Chemical Analysis	Specification	Typical Value
Magnesium Oxide as MgO (ignited basis)	99.0% min.	99.5%
Calcium as CaO	0.3% max.	0.15%
Iron as Fe_2O_3	0.04% max.	0.01%
Silicon as SiO2	0.05% max.	0.02%
Boron as B_2O_3	0.01% max.	0.005%
Sodium as Na	0.1 % max	0.03%
Chloride as Cl	0.25% max.	0.10%
Sulphate as SO_4	0.25% max.	0.20%
Loss on ignition (900° C)	2.0% max.	0.8%

Physical Properties	Specification	Typical Value
Bulk density (tapped)	0.4–0.6 g/cc	0.5 g/cc
Surface area (BET)	4–20 m^2/g	7 m^2/g
Particle size		
Residue on 100 mesh	2% max.	1%
Residue on 200 mesh	10% max.	7%
Residue on 325 mesh	25% max.	15%

Appearance and description: Free flowing white powder, almost insoluble in water. Insoluble in alcohol. Dissolves in dilute mineral acids. (Caution! Exothermic reaction!)

Packaging and storage: Net 25 kg in heavy duty paper valve bags with coated barrier ply, or big bags of 700 kg. Store in original packaging in a dry, ventilated space. Shelf-life under suitable storage conditions: 2 years from date of manufacture.

Custom-tailored specifications and other packaging modes are available.

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