Technical Data Sheet

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 (by difference)	99.0% min	99.5%
Calcium as CaO	0.15% max	0.10%
Iron as Fe_2O_3	0.012% max	0.009%
Silicon as SiO_2	0.05% max	0.02%
Boron as B_2O_3	0.02% max	0.005%
Chlorides as Cl	0.12% max	0.08%
Sulphates as SO_4	0.15% max	0.12%
Sodium as Na	0.10% max	0.03%
Loss on Ignition (900° C)	2.0% max	0.8%

Physical Properties	Specification	Typical Value
Tapped Density (10 taps)		0.40-0.60 g/cc
BET Surface Area	4.0-20.0 m^2/g	7.0 m^2/g
Particle size:		
Residue on 100 mesh (wet sieve)	2.0% max	1.0%
Residue on 200 mesh (wet sieve)	10.0% max	7.0%
Residue on 325 mesh (wet sieve)	25.0% max	15.0%

Appearance and description: Fine 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, big bags of 700 or 1000 kg. Store in original packaging in a dry, ventilated space.

Shelf-life under suitable conditions: 2 years from date of manufacture.
Customer-tailored specifications and other packaging modes are available.

847-1003-05-08-2016

ICL Specialty Minerals — Where needs take us

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Technical Data Sheet

KP

Magnesium Oxide - Technical Grade

For the production of high purity magnesium compounds.
KP is ideal as a raw material where low reactivity and high purity as required.

Chemical Analysis	Specification	Typical Value
Magnesium Oxide as MgO (by difference)	98.0% min	99.0%
Calcium as CaO	0.60% max	0.30%
Silicon as SiO_2	0.10% max	0.03%
Iron as Fe_2O_3	0.015% max	0.010%
Sulphates as SO_4	0.17% max	0.12%
Chlorides as Cl	0.25% max	0.15%
Loss on Ignition (900° C)	2.0% max	0.5%

Physical Properties	Specification	Typical Value
Tapped Density (10 taps)	Report	0.60 g/cc
Particle size:		
Residue on 100 mesh (wet sieve)	10.0% max	5.0%
Residue on 325 mesh (wet sieve)	35.0% max	30.0%

Appearance and description: Fine 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, big bags of 750 kg. Store in original packaging in a dry, ventilated space.

Shelf-life under suitable conditions: 2 years from date of manufacture.
Customer-tailored specifications and other packaging modes are available.

847-5001-06-08-2018

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Technical Data Sheet

KPLL5

Magnesium Oxide - Technical Grade

The KPLL series represents a group of technical grades of magnesium oxide for use in the chemical industry where high purity, controlled reactivity and particle size are indicated. The series provided a range of products of differing activity from moderate to high controlled values of surface area.

Chemical Analysis	Specification	Typical Value
Magnesium Oxide as MgO (by difference)	98.0% min	99.0%
Calcium as CaO	0.60% max	0.30%
Silicon as SiO_2	0.10% max	0.02%
Iron as Fe_2O_3	0.014% max	0.009%
Sulphates as SO_4	0.17% max	0.12%
Chlorides as Cl	0.25% max	0.15%
Loss on Ignition (900° C):	2.0% max	0.5%

Physical Properties	Specification	Typical Value
Tapped Density (10 taps)	0.90 g/cc max	0.47 g/cc
BET Surface Area:	3.0-7.0 m^2/g	5.0 m^2/g
Particle size:		
Residue on 200 mesh (wet sieve)	5.0% max	3.0%

Appearance and description: Fine 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 750 kg. Store in original packaging in a dry, ventilated space.

Shelf-life under suitable conditions: 2 years from date of manufacture. Customer-tailored specifications and other packaging modes are available.

847-5002-06-01-2019

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