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Technical Data Sheet

Magnesium oxide

Product Information

Chemical Name	Magnesium oxide
CAS #	1309-48-4
EINECS	215-171-9
Formula	MgO
Molecular Weight	40.3
Chemical Structure	

HMg=O

Description

Magnesium oxide is a white powder, insoluble in water or ethanol but soluble in acid and ammonium salt. This substance is very hygroscopic and easily absorbs water when exposed to air. Magnesium oxide is widely used in pharmaceutical and technical industry, and used for the production of rubber, wire and cable, dyeing, and glass ceramics, etc.

Physical Properties

Density	1.493(19℃)
Melting point	26.5℃
Boiling point	108℃

Specification

USP Grade

MgO	≥97.0%
CaO	≤0.20%
Hydrochloric acid insoluble	≤0.10%
SO4	≤0.10%
Fe	≤0.10%
Cl	≤0.10%

Technical Grade:	
magnesium oxide(MgO)content	⩾96.0%
calcium oxide(CaO)	⩽0.10%
content of acid insoluble	⩽0.08%
Screen Residue(150um)	⩽0.02%
sulphateSO4)	⩽0.05%
iron(Fe)	⩽0.01%
manganese(Mn)	⩽0.003%
chloride(Cl)	⩽0.012%
weight losses for scorching	⩽3.5%
Packing density(g/ml)	0.167

Applications

For medical use, Magnesium oxide is used as antacid and laxative. It is used to cure gastric hyperacidity and Duodenal ulcer disease. It is also used together with calcium carbonate.
For technical use, Magnesium oxide is mainly used for cable wire, dyeing, oil production, glass and porcelain industries, etc.

Packaging

25kg bag, 1*20”FCL loads 9 tons(light MgO) or 16 tons(heavy MgO), without pallets.

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