



PRODUCT IN FOCUS



Magnesium trisilicate

INTRODUCTION

Magnesium trisilicate is an inorganic compound that is used as a food additive. The additive is frequently used by fast food chains to absorb fatty acids and extract impurities formed while frying edible oils. It has good acid neutralizing properties.

Manufacture

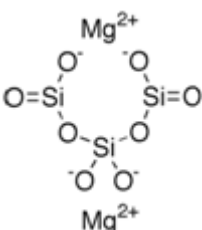
Prepared from Sodium silicate and Magnesium sulfate.

Applications

Magnesium Trisilicate is a common antacid drug that is used for the treatment of indigestion, heartburn, or gastroesophageal reflux disorder (GERD).

It is also used as

- ✔ Antioxidant
- ✔ Decolorizing agent
- ✔ Industrial odor absorbent

Synonyms	Magnesium silicate hydrate, Magnesium silicon oxide
CAS no.	14987-04-3
EINECS no.	239-076-7
Molecular formula	$Mg_2O_8Si_3$
Molecular weight	260.86
Structure	



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SPECIFICATIONS - USP

Test	Unit	Specification
Description	-	A white or almost white powder
Solubility	-	Practically insoluble in water & in ethanol (96%)
Identification	-	A) The Neutralized filtrate responds to the tests for Magnesium B) Silica Floats about in the bead, producing, upon cooling an opaque bead with a web-like structure
Water	%	Between 17.0 to 34.0
Soluble salts	-	The residue weight not more than 38.0 mg (1.5%)
Chloride	%	Not more than 0.055
Sulfate	%	Not more than 0.5
Free Alkali	-	Not more than 1.0 ml of 0.10 N hydrochloric acid is required
Arsenic	ppm	Not more than 8
Acid consuming capacity	-	Between 140 ml to 160 ml of 0.10 N hydrochloric acid
Assay as MgO	%	Not less than 20.0
Assay as SiO ₂	%	Not less than 45.0
Ratio of SiO ₂ to MgO	-	Between 2.10 to 2.37

Product is also available in BP/EP grades



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STORAGE

The product is stored at ambient temperature protected from moisture

PACKING

25 kg HDPE bags

REGISTRATION / CERTIFICATION

- ☑ WHO-GMP
- ☑ EU-WC (Written Confirmation)

ExSyn offers Magnesium trisilicate on commercial scales and welcomes enquiries. No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.