

SPECIFICATION

Product Name: Magnesium Chloride Anhydrous Powder
Chemical Formula: $MgCl_2$
CAS Number: 7786-30-3
Molecular Weight: 95.21 g/mol
Appearance: White crystalline powder.
Odor: Odorless.

Chemical Composition

Parameter	Unit	Specification (Min/Max)
MgCl ₂	%	Min. 98 – 99.25 %
K ₂ O	%	0.005%
Na ₂ O	%	0.005%
CaO	%	0.03%
SiO ₂	%	0.04%
Fe ₂ O ₃	%	0.006%
Al ₂ O ₃	%	0.03%
Density	gm/cc	2.32 gm/cc
Melting Point	°C	714°C
Moisture	%	< 1.0%
Insoluble	-	Negligible
Black Particles	-	Negligible

Physical Properties

- Solubility: Freely soluble in water. Slightly soluble in ethanol. Practically insoluble in acetone. Insoluble in ether.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly sealed, moisture-proof container in a cool, dry, and well-ventilated area. Protect from humidity, water, direct sunlight, and excessive heat. Due to its highly hygroscopic nature, magnesium chloride anhydrous readily absorbs moisture from the air and may cake or liquefy if exposed to humid conditions.

Applications

- Use: Widely used as a source of magnesium, electrolyte, and processing aid in pharmaceutical, nutraceutical, food, industrial, and water treatment applications.
- Dosage: Depends on the intended application, formulation, and magnesium content requirements.

Packaging

- Standard Packing: 50 kg HDPE Drum and 100 grams, or as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.