

## SPECIFICATION

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|------------------------------------------------|
| <b>Product Name:</b> Magnesium Chloride Flakes |
| <b>Chemical Formula:</b> MgCl <sub>2</sub>     |
| <b>CAS Number:</b> 7786-30-3                   |
| <b>Molecular Weight:</b> 203.31 g/mol          |
| <b>Appearance:</b> White Flakes                |
| <b>Odor:</b> Odorless                          |

## Chemical Composition

| Parameter     | Unit              | Specification (Min/Max) |
|---------------|-------------------|-------------------------|
| Assay         | %                 | 99.58%                  |
| Chloride      | %                 | 35% - 37%               |
| Sulphate      | %                 | Max. 0.05%              |
| Calcium       | %                 | Max. 0.2%               |
| Magnesium     | %                 | 10 – 11%                |
| PH            | -                 | 4.5 to 7                |
| Destiny       | g/cm <sup>3</sup> | 1.56 g/cm <sup>3</sup>  |
| Melting Point | °C                | 117°C                   |
| Boiling Point | °C                | 1412°C                  |

### Physical Properties

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

### Shelf Life & Storage

- Shelf Life: 2 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed, moisture-proof container in a cool, dry, and well-ventilated place, protected from moisture, humidity, rain, and direct sunlight.

### **Applications**

- Use: Widely used as a source of magnesium, mineral supplement, de-icing agent, dust suppressant, water treatment chemical, and industrial processing aid. Due to their high solubility and magnesium content, they are utilized across pharmaceutical, nutraceutical, food, personal care, agricultural, and industrial sectors.

- Dosage: Depends on Intended application, Desired elemental magnesium level, Product formulation, Regulatory requirements, Age, nutritional status, and specific use conditions.

### **Packaging**

- Standard Packing: 50 kg woven PP bags with inner liner and 1 Kgs 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.