

Technical Data Sheet (TDS)

1. Product Overview

- Product Name: Magnesium Chloride
- English Name: Magnesium Chloride
- CAS Number: 7786-30-3
- Formula: $MgCl_2 \cdot 6H_2O$
- Molecular Weight: 203.30 g/mol
- Product Characteristics: High-purity white crystalline granules, highly soluble in water, stable under normal conditions. Essential magnesium source, used as deicing agent, food additive, and industrial material. Non-toxic in proper use.

2. Technical Specifications

Item	Specification
Appearance	White crystalline powder/granules
Purity ($MgCl_2 \cdot 6H_2O$)	$\geq 98.0\%$
Mg Content	9.5-10.5%
Cl^- Content	34.0-36.0%
Moisture Content	$\leq 1.0\%$
Heavy Metals (Pb)	$\leq 0.001\%$
Iron (Fe)	$\leq 0.005\%$
Sodium (Na)	$\leq 0.5\%$
Insoluble Matter in Water	$\leq 0.1\%$
pH Value (5% solution, 25°C)	4.0-6.0
Solubility (20°C)	≥ 150 g/100 mL (water)

3. Product Advantages

- High purity and consistent quality.
- Excellent solubility in water for easy formulation.
- Cost-effective for large-scale industrial use.
- Multi-functional for various applications.
- Food-grade option available (meets FDA standards).

4. Application Fields

- Deicing & Anti-icing: Roads, sidewalks, airports (lowers freezing point).
- Food Industry: Firming agent for tofu, cheese, and processed vegetables.
- Agriculture: Animal feed supplement (magnesium source).
- Industrial: Concrete additive (accelerates setting), dust control, textile processing.
- Pharmaceuticals: Magnesium supplement in tablets and capsules.

5. Usage Methods

- Deicing: Spread 20-50 g/m² on snow/ice-covered surfaces.



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- Food: Add 0.1-1.0% (mass ratio) to food formulations; comply with limits.
- Concrete: Add 1-3% of cement weight to concrete mixture.
- Optimal Conditions: Apply at -20°C to 35°C; avoid strong alkalis.

6. Packaging & Storage

- Packaging: 10 kg/bag (plastic-lined kraft bag), 25 kg/drum (HDPE), 1000 kg/IBC totes.
- Storage: Cool, dry, well-ventilated warehouse ($\leq 30^{\circ}\text{C}$); keep sealed.
- Shelf Life: 36 months (unopened).
- Transportation: Non-dangerous goods; avoid moisture, collision.

7. Safety & Protection

- Wear protective gloves and safety goggles during handling.
- Avoid skin/eye contact; rinse immediately if contact occurs.
- Food-grade product: Comply with food additive dosage limits.

8. Quality Assurance

- Manufactured under ISO 9001 quality management system.
- Food-grade products meet FDA and national food safety standards.
- Each batch accompanied by COA.



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