



# Product Specification For Magnesium Sulfate Crystals, Tech 2020

## CHARACTERISTICS

The material shall be colorless, solid at ambient temperatures, formed in small needle-like rhombic crystals and free of solid or fibrous foreign matter that will require the dissolved material to be filtered before being used.

Epsom salt is one of the most common forms of magnesium sulfate heptahydrate. EPSOM SALT is a hydrated salt with seven molecules of water, so caking or bridging can occur. Care should be taken to protect the material if it is stored in the granular form for long periods of time. EPSOM SALT is readily soluble in water and will yield a saturated 24.5 percent solution of magnesium sulfate at storage temperatures of 66 – 75 degrees F.

P R O P E R T I E S	Identification	Test of Magnesium	Positive
		Test of Sulfate	Positive
	Chemical	pH	5.0 – 9.2
		Loss of ignition	40.0% - 52.0%
		Chloride, maximum, ppm	200
		Heavy Metals (as Pb), maximum, ppm	10
		Iron, maximum, ppm	20
		Selenium, maximum, ppm	30
		Assay	99%–100.5%
	Physical	Color	Colorless
		Crystal Form	Small; White

## QUALITY ASSURANCE PROVISION

### GENERAL:

Magnesium Sulfate Crystals shall be manufactured using current Good Manufacturing Practices (cGMP).

The material shall be guaranteed to meet chemical and physical properties specified herein, and said material is free from all Class I, II and III residual solvents as listed by the ICH Q3C guidance.

### RESPONSIBILITIES FOR TESTS & INSPECTIONS:

Unless otherwise specified by purchaser, the supplier is responsible for providing a lot analysis on the material. Except as otherwise specified, the supplier may utilize his own facilities or any commercial laboratory. Analysis' are available for each lot at an additional charge.

## PACKAGING & SHIPPING

### PACKAGING:

Shall be accomplished in accordance with acceptable commercial practices for domestic or foreign shipments unless otherwise indicated by the purchaser. It shall be the vendor's responsibility to determine that packaging, as done, is adequate to assure that all materials shall arrive at destination in an uncontaminated condition and ready for intended use.

### SHIPPING:

Shall be accomplished in accordance with acceptable commercial practices for domestic or foreign shipment for this type of product unless otherwise indicated by the purchaser.

PRODUCERS OF MAGNESIUM SULFATE SINCE 1950

102 Commerce St., Waynesville, NC 28786 • USA • Tel: 828-452-4784 • Fax: 828-452-4786