



**SPECIFICATIONS FOR
MAGRICULTURE®
MAGNESIUM SULFATE CRYSTALS
FEED & AGRICULTURAL USAGE
January 1, 2013**



Characteristics:

MAGRICULTURE® Magnesium Sulfate Crystals 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 dissolved material to be filtered before being used.

Properties:

CHEMICAL

| | |
|---|-------|
| MgSO ₄ (as MgSO ₄ x 7H ₂ O), minimum % | 99.00 |
| MgSO ₄ , minimum % | 48.30 |
| Mg, minimum % | 9.8 |
| S, minimum % | 12.9 |
| Chlorides (as Cl), maximum % | 0.014 |
| Sodium Salts (as Na), maximum, ppm | 25 |
| Potassium Salts (as K), maximum, ppm | 25 |
| Calcium Salts (as Ca), maximum, ppm | 25 |
| Lead Salts (as Pb), maximum, ppm | 10 |

PHYSICAL

| | |
|--|----------------------|
| Color | Colorless |
| Crystal Form | Rhombic (monoclinic) |
| Density, Bulk (approximate) lb/ft ³ | 55-58 |
| Odor | None |

Quality Assurance Provision:

GENERAL

MAGRICULTURE® Magnesium Sulfate Crystals shall be manufactured using Good Manufacturing Practices (GMP).

MAGRICULTURE® Magnesium Sulfate Crystals shall be guaranteed to meet the chemical and physical properties specified herein.

Characteristics

Discussion

EPSOM SALT is one of the most common forms of magnesium sulfate. EPSOM SALT is a hydrated salt with seven molecules of water, so caking can occur. Therefore, 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.

PRODUCERS OF MAGNESIUM SULFATE SINCE 1950

USA

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