

TRIPAL INTERNATIONAL
4D, Kasthuri Apartments, J.P. Avenues, Dr. Radhakrishnan Road
Mylapore, Chennai – 600 004, INDIA

PRODUCT SPECIFICATION MAGNESIUM SULPHATE HEPTAHYDRATE

Epsom salt pure, technical

Formula	MgSO ₄ . 7H ₂ O
Nature	White crystals
Content	More than 48% MgSO ₄ Less than 35 ppm Cl Less than 70 ppm F
Typical	MgSO ₄ 49% OR 16% MgO (9.9% Mg), 33% SO ₃ (26% SO ₂ , 13% S) respectively
H ₂ O	51%
Molecular weight	246,47 g/mol
Bulk density	Standard: abt.0.95 g/cm ³ Fine cryst: abt 0.92g/cm ³
Angle of repose	Standard : abt. 33° Fine cryst : abt 32°
Melting point	Incongruent melting above 46.1° C with formation of a Saturated solution of MgSO ₄ by weight at 20° C
Solubility	Readily soluble in water, practically no residues left
Saturation point	25.8% MgSO ₄ by weight at 20° C

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Appearance	Crystalline
Standard:	Predominantly between 1 and 3 mm Fine cryst: Mainly <0.8 mm
Packing	25 kg, 50 kg or 1200 kg woven polypropylene bags, with PE liner
Special characteristics	<p>Epsom salt esp, when very pure and without any additives, is sensitive against variations of temperature and humidity. At 20° C and a relative atmospheric moisture of < 45% it gradually releases water by simultaneous weathering (growing opacity of crystals); at >90% it absorbs water and deliquesces. Epsom salt transforms into MgSO₄ . 6H₂O below a certain water vapor pressure according to temperature. It is not stable above 46.1° C. If shipped in closed containers. Epsom salt, after having been exposed to high temperatures, re-crystallizes as soon as the temperature decreases. This re-crystallization very often results in caking.</p> <p>Epsom salt normally contains less than 0.6 ppm vanadium, which is using as micro nutrition for deficiency in plants like Wheat, Coffee, Tea, Banana, Pinapple etc.</p>

Legal Tolerances as per E.U. regulations.