



MAGNESIUM SULFATE (9.8% Mg)

Properties

Formula: $MgSO_4 \cdot 7H_2O$

Mol. weight: 246.48

Crystalline form: Rhombic or Monoclinic

Index of refraction: 1.445

Hardness: 2-2.5 (Mohs scale)

Density: 1.68

Bulk density: Approx. 65-66 pounds per cubic foot

Screen:

+10 mesh	Less than	1.0%
-10 +20		44.0%
-20 +28		33.0%
-28 +48		21.0%
-48	Less than	2.0%

Color: Colorless or white

Taste: Bitter, saline, cooling

Stability: On exposure to dry air, it gradually loses hygroscopic moisture with increasing temperatures until completely desiccated at temperatures above 250°F. Rapidly re-absorbs water when exposed to moist air.

Solubility: $20^{\circ}C/100ml$, $40^{\circ}C/100ml$.
71 gms 91 gms

pH of 1% solution: 6-7

Typical Analysis:

Magnesium Oxide	16.46%
Sulfur Trioxide	32.50%
Ignition loss (water)	51.00%
Calcium Oxide	0.04% Max.
Sodium Chloride	0.02% Max.

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