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**SPECIFICATIONS FOR  
 GREENDALE, IN  
 MAGNESIUM SULFATE SOLUTIONS  
 January 29, 2013**

**CHARACTERICS:**

1. The material shall be colorless, clear solution with cooling saline, bitter taste. It will be free from foreign matter that would require filtration.
2. The brine solution will crystallize and the crystallization point depends on the concentration of the solution.

**Properties:**

CHEMICAL

MgSO <sub>4</sub> , as requested % .....	18-27
Identification, positive for Mg and SO <sub>4</sub> .....	
Chloride .....	less than 120 ppm
Arsenic .....	less than 1.5 ppm
Heavy Metals .....	less than 5 ppm
Selenium .....	less than 30 ppm
Iron .....	less than 10 ppm
Manganese .....	less than 8 ppm

PHYSICAL

Color .....	colorless
Weight per gallon, depending on percentage .....	10.0-10.8

**Quality Assurance Provision**

GENERAL

The material specified herein shall be manufactured using acceptable industrial practices.

The material shall be guaranteed to meet chemical and physical properties specified herein.

RESPONSIBILITY FOR TESTS & INSPECTIONS

Unless otherwise specified by the purchaser, the supplier is responsible for providing a lot analysis of 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 or product unless indicated by the purchaser.

***PRODUCERS OF MAGNESIUM SULFATE SINCE 1950***