# **Product Data Sheet**

## Valu-Fil 650 - Flame Retardant Filler

Valu-Fil 650 is a finely ground, soft white, Calcium Sulfate Dihydrate which is utilized as economical flame-retardant filler in polymer resin systems. This product is produced by grinding high purity gypsum into a particle size distribution which optimizes its loading potential. Loading resin systems with high concentrations of Valu-Fil 650 has the benefits of maximizing the flame-retardant properties of the cured resin, lowering resin system cost and reducing resin shrinkage.

#### Typical Chemical Analysis

Gypsum Purity	90%
Free Moisture	0.04%
Combined Moisture	19%

### **Typical Physical Properties**

Appearance	White Powder
Specific Gravity	2.32
Bulk Density	69 lb./ft <sup>3</sup>
Mohs Hardness	2.0
На	8

## Typical Particle Size Distribution

Particles Passing ASTM Sieve	<del>2</del> S
40 Mesh	100.0%
100 Mesh	97.8%
200 Mesh	84.0%
325 Mesh	65.0%

\*Certificate of Analysis and SDS available upon request

#### Advantages:

- Flame Retardant Valu-Fil 650 contains chemically combined water which acts as a flame retardant in resin systems. It has been used successfully to pass the UL E-84 and UL E-162 flame and smoke tests.
- Economical Valu-Fil 650 low product cost and its ability to be filled at high volumetric concentrations reduces the amount of resin used, lowering the cost of the resin system.
- Compatibility Valu-Fil 650 is compatible with a wide variety of the resin systems currently in use from a variety of manufacturers. Used successfully at load ratios in excess of 50%.
- Fluidity/Suspension The particle size distribution of Valu-Fil 650 has been optimized to provide excellent viscosity and suspension properties in resin systems improving mixing and processing operations.