



Product Data Sheet

Valu-Fil 650

Calcium Sulfate Dihydrate

CaSO₄2H₂O Molecular Weight: 172.17

Typical Chemical Analysis

Combined Moisture	18.6%
Free Moisture	0.05%–0.06%
Calcium Sulfate Dihydrate	90.0%

Typical Physical Properties

Appearance	White Powder
Specific Gravity	2.32
Bulk Density	69 lb./ft ³
Moh Hardness	2.0
pH	7.5

Typical Particle Size Distribution

Particles Passing ASTM Sieves	
50 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.



Product Data Sheet

Valu-Fil® 650

Transportation Logistics

Arcosa Specialty Materials has the ability to provide full traffic and distribution services to coordinate logistical activities involving product delivery in accordance with customer requirements which include FOB and delivered price billing.

Product Quality

Arcosa Specialty Materials is vertically integrated in order to be in complete control of all materials and processes responsible for the production of our products. To be sure consistency is maintained; we continuously sample and analyze Valu-Fil® Coarse Grind for purity, moisture, and particle size. A certificate of analysis is available upon request for each lot produced.

Customer Service

At Arcosa Specialty Materials, we have had a long and successful tradition of service as a supplier of Calcium sulfate to a diversity of industries, attesting to both our desire and ability to meet the needs of our customers. Our processing and grinding facilities offer easy access by either rail or truck.

Customer Assurance Disclosure

Valu-Fil® Coarse Grind (ground calcium sulfate) is not processed to control microbial pathogens, including Salmonella.

Arcosa Specialty Materials has conducted a hazard analysis in compliance with the Food Safety Modernization Act (FSMA). The grinding and packaging of calcium sulfate does not include a validated kill step for microbial pathogens. As such; Arcosa Specialty Materials has implemented a Customer Assurance Program as outlined in 21 CFR 117.136 and 117.335, and/or 21 CFR 507.36 and 507.215 as applicable to the products produced at Arcosa Specialty Materials.