

Min-U-Gel[®] 400

Description:

MIN-U-GEL[®] 400 is a hydrous magnesium aluminum silicate with gelling and rheological properties used to thicken and stabilize aqueous systems. MIN-U-GEL[®] 400 can be used alone or in conjunction with associative thickeners where a low shear thixotrope is needed to support the high shear thixotropy of the associative thickener.

Typical Physical Properties:

• Free Moisture, wt. % @ 220°F	13.5
• Dry Particle Size Average (Microscan Particle Analyzer), microns	4.2
• -25 Micron Particles (Alpine Air Sieve), %	99.5
• Residue on 325 Mesh Screen (Wet Test), %	0.005
• Viscosity of 7% Clay Dispersion in Water	4,200
• Apparent Density/Bulk Tamped (lbs/ft ³)	33
• Bulking Value (lbs/gal)	20
• pH	9.7
• Color	Light Cream

Typical Chemical Analysis:

• SiO ₂	66.21%	MgO	9.90%
• Al ₂ O ₃	12.1%	K ₂ O	1.1%
• Fe ₂ O ₃	4.2%	CO ₂	1.8%
• TiO ₂	0.6%	SO ₄	0.2%
• P ₂ O ₅	1.0%	Other	0.1%
• CaO	2.8%	Specific Gravity	2.40 g/ml

Typical Applications:

- Latex based architectural coatings
- Binders for foundry mold coatings
- Traffic paints
- Water based adhesives
- Sealants and caulks
- FRP/GRP applications

(Although the elements are reported as oxides, they are actually present as complex aluminosilicates.)

All of the above information provided is presented in good faith, based on our testing and experience, and believed to be accurate. No guarantee, either expressed or implied, is made with respect to the infringement of any patent. These values represent typical data from samples taken from production batches. They are not to be considered specifications. Results may vary depending upon equipment and procedures. The user of these materials is responsible for determining its suitability for their application.

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