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Attapulgit Gel 40

Attapulgit Gel 40 is a hydrous magnesium aluminum silicate with gelling and rheological properties used to thicken and stabilize aqueous systems. It can be used alone or in conjunction with associative thickeners where a low shear thixotropy is needed to support the high shear thixotropy of the associative thickener.

Attapulgit Gel 40 was especially developed with controlled properties specifically to function as a binder during the production of molecular sieves.

Typical Physical Properties:

Free Moisture, wt. % @ 220°F	13.5
Dry Particle Size Average (Microscan Particle Analyzer), microns	4.2
-25 Micro Particles (Alpine Air Sieve), %	99.5
Residue on 325 Mesh Screen (Wet Test), %	0.05
Viscosity of 7% Clay Dispersion in Water (cps)	4,200
Apparent Density/Bulk Tamped (lbs/ft ³)	33
Bulking Value (lbs/gal)	20
pH (2% DI Water)	9.7
Color	Light Cream

Typical Chemical Analysis (%):

SiO ₂	66.2%
Al ₂ O ₃	12.1%
MgO	9.9%
CaO	2.8%
Fe ₂ O ₃	4.2%
Specific Gravity	2.40 g/ml

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

Typical Applications:

- Latex based architectural coatings
- Foundry mold coatings
- Binders for molecular sieve production
- Traffic paints
- Water based adhesives
- Sealants and caulks
- Plastisols