

VOLCLAY® SG-40

Description:	Volclay SG-40 is a natural, granular; high swelling Wyoming sodium bentonite specially treated for improved efficiency (lower application rates) in soil/bentonite liners. May be a more cost-efficient alternative to untreated Volclay bentonite in freight-sensitive projects.								
Applications:	Soil/bentonite liners.								
Composition:	Sodium bentonite is a hydrous silicate of alumina primarily consisting of the clay mineral montmorillonite, which swells several times its own volume when, wetted.								
Free Swell	24 ml/2g minimum (ACC 1010)								
Filtrate Loss:	18 ml maximum (API 13A)								
Moisture Content:	12 percent maximum as shipped								
Particle Sizing:	15 percent max. retained on a #20 mesh (850 mm) sieve 15 percent max. passing a #200 mesh (75 mm) sieve (ASTM D422)								
Dry Bulk Density:	65 lbs/ft ³ (1,040 kg/m ³) typical								
Packaging:	50-lb (22.5 kg) or 100 lb (45-kg) multi-wall paper bags; 2000lb (900kg) or 4,000 lb (1,800-kg) super sacks; or bulk.								
Availability:	F.O.B. Lovell, WY. Quantities less than 1 ton may be available locally.								
Application Information:	<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">Primary Soil Type</th> <th style="padding: 5px;">Typical Application Rate*</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">Sand</td> <td style="text-align: center; padding: 5px;">6-8 lbs/ft² (40-50 kg/m²)</td> </tr> <tr> <td style="text-align: center; padding: 5px;">Silt</td> <td style="text-align: center; padding: 5px;">3-6 lbs/ft² (20-50 kg/m²)</td> </tr> <tr> <td style="text-align: center; padding: 5px;">Clay</td> <td style="text-align: center; padding: 5px;">2-3 lbs/ft² (10-20 kg/m²)</td> </tr> </tbody> </table> <p style="font-size: small; margin-top: 10px;">*Application rates are for a soil/bentonite liner mixed in a layer 6 inches (150mm) in thickness with a permeability of 1×10^{-7} cm/sec. Application rates above are shown for informational purposes only. All soils should be tested to determine specific application rates.</p>	Primary Soil Type	Typical Application Rate*	Sand	6-8 lbs/ft ² (40-50 kg/m ²)	Silt	3-6 lbs/ft ² (20-50 kg/m ²)	Clay	2-3 lbs/ft ² (10-20 kg/m ²)
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