



Calidria ASBESTOS

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10

RESIN GRADE - 144

Union Carbide's RG-144 Asbestos is a highly refined, purified chrysotile asbestos. There are about 1×10^{14} colloidal fibrils per gram of RG-144. For this reason RG-144 is an effective low cost thickening agent for liquid resins. Because of the favorable aspect ratio (ca. 200:1) of the fibrils, they perform well as mineral reinforcing whiskers in resin systems. The physical characteristics of RG-144 are shown below.

Typical Physical Characteristics

Specific Gravity	2.45
Moisture Content, % by Wt.	2.0 max.
Surface Area, Sq. meters per gram	60 approx.
Reflectance, G.E. Brightness	72-76
Nature of Surface Charge	Electropositive (Cationic)
pH in Water (2% slurry)	9.0
Bulking Value, gal./100 lb.	4.8
Oil Absorption (DOP) lb./100 lb.	120
Refractive Index, n_d 25°C	1.54-1.56
Aspect Ratio (Average L/D)	200:1
Tensile Strength, psi*	824,000 max. (281,000-436,000)
Tensile Modulus, psi*	23.2×10^6
Dry Bulk Density, lb./cu. ft. (fully aerated)	4
Shipping Density, lb./cu. ft.	12-14
Standard Pallet Weight, lb.	1400

Chrysotile is one of a group of six different asbestiform minerals. It is a tubular, hydrated magnesium silicate ($Mg_6(OH)_8Si_4O_{10}$) and accounts for 90% of all asbestos currently used in the United States. (Most of which is mined and processed in Canada and is known, consequently, as Canadian Chrysotile.)

