

CHARLES B. CHRYSTAL CO., INC

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INDUSTRIAL MINERALS SINCE 1897

FIRE RETARDANT GRADE VERMICULITE

This is a product produced by the careful separation and purification of natural Vermiculite. The particles are further processed to separate them into a narrow particle size range. The vermiculite is used in fire rated composites, building materials, and as an intumescent fire retardant in polymers.

CHEMICAL CHARACTERISTICS:

As delivered, before exposure to high temperature	
Crystalline and Bound Water	7-13%
Analysis after calcination	
SiO ₂	44%
Al ₂ O ₃	19%
Fe ₂ O ₃	9%
MgO	27%

PHYSICAL CHARACTERISTICS:

Combustion Temp	Will not burn
pH	6. to 8.
Cation Exchange Capacity	50-100 M.eq/100g (typically)
Color	Brown or Dark Gold
Particle Shape	Sheet Platelets
Hardness, Mohs	1 to 2, very soft
Density	50 to 70 lbs/ft ³
Aspect Ratio	20 to 40 :1
Expansion Ratio	10:1
Expansion Temperature	1200 to 1800 degrees F
Melting Temperature	Over 2,200 degrees F
Particle Size Distribution (typical):	
+30 US mesh	0 to 1.5%
30/50	0 to 20
50/100	30 to 76
-100	24 to 7

ORIGIN: USA

PACKING: 50 Lb paper bags or Supersacks

