

CHARLES B. CHRYSTAL CO., INC

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INDUSTRIAL MINERALS SINCE 1897

EXPANDED VERMICULITE

This product is mined, concentrated, sized, and then expanded at high temperature to produce a low density, high surface area Vermiculite. The typical uses include: soil amendments, mortar and insulating cements, moldable insulation, carrier for agricultural formulations, and many other industrial uses

CHEMICAL CHARACTERISTICS:

SiO ₂	38 %
Al ₂ O ₃	13 %
Fe ₂ O ₃	12 %
MgO	15 %
CaO	2.3 %
K ₂ O	4.8 %
LOI, after expansion	2.0%

PHYSICAL CHARACTERISTICS:

Combustion Temp	Will not burn		
pH	7.0-7.1 (in water)		
Cation Exchange Capacity	50-100 M.eq/100g (typically)		
Moisture	<2.5% (total of free and intrinsic moisture)		
Color	Tan or off white		
Particle Shape	Accordion-like		
Hardness	1.5-2.0 mohs		
Density	5.0 -10.0 lbs/ft ³		
Fusion Temperature	Over 2,200 degrees F		
Particle Size Distribution (as cumulative % by weight, typical):			
Mesh	Grade 3	Grade 4	Grade 5
8	0-10		
20		0-30	
30	70-100	40-70	
40			10-40
50		65-95	30-70
100		90-100	70-100

ORIGIN: USA