

CB MINERALS LLC

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NUMBER 7 VERMICULITE

This product is mined, concentrated, sized, and then expanded at high temperature to produce a low density, high surface area Vermiculite. This process carefully separates the vermiculite sheets to form a dry delaminated product. The typical uses include polymers, where it improves the HDT without the loss of impact strength or flex modulus, friction products seed protection and many other industrial uses

Chemical Analysis

SiO ₂	40.0 %
Al ₂ O ₃	13.8 %
Fe ₂ O ₃	11.2 %
MgO	25.2 %
CaO	1.3 %
K ₂ O	4.2 %
LOI	1.4 %

Physical Analysis

Combustion Temp	Will not burn
pH	7.0 (in water)
Cation Exchange Capacity	50-150 M.eq/100g (typically)
Moisture	< 2.5% (total of free and intrinsic moisture)
Color	Tan
Particle Shape	Accordion-like
Hardness	1-2 mohs
Density	6.0 -10.0 lbs/ft ³
Fusion Temperature	Over 2,200 degrees F

Particle Size Distribution (% retained by weight, typical):

Mesh	µm	% Retained
40	420	0 - 4
70	210	4 - 30
100	150	6 - 30
200	75	25 - 55
Pan	-	10 - 40

Origin: USA