

CB MINERALS LLC

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NUMBER 5 VERMICULITE (Raw)

Number 5 Vermiculite concentrate is inorganic, chemically inert, incombustible and it expands when rapidly heated. It is primarily used in its unexfoliated form as a component in the manufacture of fire-rated wallboard.

Typical Physical Analysis:

Property	Value / Range
pH (in water)	6.0 - 8.0
Cation Exchange Capacity	50-100 Meq/100g (typically)
Free Moisture	1.5 - 3 %
Total Moisture	7 - 13 %
Color	Medium Brown to Black
Particle Shape	Sheet platelet
Aspect Ratio	20:1 - 40:1
Hardness	1-2 mohs
Bulk Density	50 - 70 lbs./ft ³
Specific Gravity	2.5 - 2.8
Expansion Ratio	10 times (volume)
Expansion Temperature	1200 – 1800 °F
Fusion Temperature	Over 2,200 °F

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

Mesh	mm	% Retained	Cumulative % Retained	Cumulative Specification
20	0.84	0	0	0
30	0.60	0	0	0 – 1
50	0.30	16	12	0 – 20
100	0.15	53	60	30 – 76
Pan	-	31	-	-

Origin: USA