

CRUDE NAMEKARA VERMICULITE SPECIFICATION SHEET

DESCRIPTION

Vermiculite is the mineralogical name given to a group of naturally occurring hydrated laminar minerals which are magnesium-aluminium-iron silicates. When subjected to heat, vermiculite has the property of exfoliating or expanding, due to the generation of inter-laminar steam. The exfoliation process converts the dense flakes of ore into lightweight porous granules containing numerous minute air layers. The exfoliation characteristic is the basis for the commercial use of vermiculite.

PARTICLE SIZE DISTRIBUTION

PARTICLE SIZE RANGE		GRADE A								
		PREMIUM	LARGE	MEDIUM	FINE	SUPERFINE	MICRON	RSU		
Minimum percentage	11.2-5.6mm	80%								
	9.5 – 4.00mm		80%							
by weight	4.75 – 2.0mm			80%						
retained in	2.8 – 1.0mm				80%					
range indicated	1.7 – 0.3mm					80%				
	0.71-0.18mm						80%			
	0.50-0.18mm							60%		

PARTICLE SIZE RANGE		GRADE B								
		PREMIUM	LARGE	MEDIUM	FINE	SUPERFINE	MICRON	RSU		
	11.2-5.6mm	N/A								
Minimum percentage by weight retained in range indicated	9.5 – 4.00mm		N/A							
	4.75 – 2.0mm			<80, >70%						
	2.8 – 1.0mm				<80, >70%					
	1.7 – 0.3mm					N/A				
	0.71-0.18mm						N/A			
	0.50-0.18mm							N/A		

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NONE EXFOLIATING (GRIT) CONTENT

Maximum	GRADE A								
percentage by weight	PREMIUM	LARGE	MEDIUM	FINE	SUPERFINE	MICRON	RSU		
	7%	7%	7%	7%	12%	15%	40%		

Maximum percentage by weight	GRADE B							
	PREMIUM	LARGE	MEDIUM	FINE	SUPERFINE	MICRON	RSU	
	N/A	N/A	>7, <10%	>7, <10%	N/A	N/A	N/A	

TYPICAL CHEMICAL ANALYSIS

COMPONENT	COMPONENT TYPICAL WEIGHT (%)
SiO2	35 - 39
MgO	20 - 25
Fe2O3	9 - 11
Al2O3	10 - 13
TiO2	<2
CaO	<2
K2O	<1
Na2O	<1
P2O5	<1
Mn3O4	<1

OTHER TYPICAL PROPERTIES

		GRADE					
	PREMIUM	LARGE	MEDIUM	FINE	SUPERFINE		
Loose bulk	500-800	450 - 700	450 - 700	400 -700	350 - 650		
density (Crude							
– kg/m3)							
Loose bulk	75-90	75 - 90	85 – 100	85 - 100	85 - 110		
density							
(Exfoliated –							
kg/m3)							
Surface	<6%	< 6%	< 6%	< 6%	< 6%		
Moisture							
рН	6.5-7.5	6.5 – 7.5	6.5 – 7.5	6.5 – 7.5	6.5 – 7.5		
Loss on	15% at 800	15% at 800 degrees	15% at 800	15% at 800	15% at 800		
Ignition	degrees celsius	celsius	degrees	degrees	degrees		
			celsius	celsius	celsius		

PACKAGING

1.1 metric tonne Bulk Bag, 20 bags per 20" container (loose or break bulk)

AS VERMICULITE IS A NATURAL PRODUCT, THIS SPECIFICATION MAY BE SUBJECT TO SLIGHT VARIATIONS. NAMEKARA VERMICULITE IS PERIODICALLY TESTED BY REPUTABLE INTERNATIONAL LABORATORIES FOR THE PRESENCE OF ASBESTIFORM MINERALS. NO ASBESTIFORM MINERALS HAVE BEEN DETECTED. CERTIFICATES OF ANALYSIS ARE AVAILABLE ON REQUEST.

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