

HUANGHE MINERALS CO.,LIMITED		Version: 2006
PRODUCTS SPECIFICATION		Code: T/qa
Product	Vermiculite/mica/perlite	Origin: China /XJ-HB-HN

Code	Raw Vermiculite (silver)	Raw Mica	Raw Perlite (silver)				
<b>Chemical</b>							
Al2O3	14.25	28-32	13				
SiO2	40.50	43-45	69-72				
MgO	24.55	0.6-1	0.14				
Fe2O3	3.95	3-5.5	0.6				
TiFe /TiO2	5.75	1.43	0.09				
CaO	0.95	0.75	0.8				
K2O	5.85	9-11	4-6				
Na2O	1.50	0.9-1.8	2-3				
P2O5	0.05	0.05	0.04				
H2O	3	1	2				
<b>Physical</b>							
PH	7	Iron impurities=400ppm	6-8				
Density		0.28-0.33g/cc	S.Gravity—2.2-2.4g/cc				
Melting point		1280C	1260C				
Hardness	1-1.8 moh	Oil Absorb—34-37%	LOI—4-5%				
Thermal conductivity	0.06k/m.k	LOI—4.5%	0.056k/m.k				
<b>Size (85%within range)</b>							
	<b>Exf rate</b>	<b>Impurities</b>	<b>Pack Density</b>	<b>Size</b>	<b>Sand</b>	<b>Size</b>	
Fine	0.25-1mm	5	8%	0.7-1.1	-20mesh	0.5% max	<i>Raw perlite size</i>
	0.6-1.4mm	6	8%	0.8-1.1			8-70mesh
	0.7-2mm	7	8%	0.8-1.1			0.25-0.5mm
	1-2mm	7.5	8%	0.8-1			0.25-0.84mm
Medium	1.4-4mm	8	8%	0.8-1			0.177-0.84mm
	2-4mm	8	8%	0.8-1			<i>Exfoliated: 0-5mm</i>
Large	3-6mm	9	8%	0.8-1			expan rate: >5 times
	4-8mm	10	8%	0.8-1			
<b>Description</b>		<p>1) Vermiculite is hydrated laminar magnesium-aluminum-iron silicate subject to heat it will exfoliated into worm like pieces till 8-12 times.</p> <p>2) Mica, muscovite mica are alumina-silicate minerals. It has an excellent platelet structure, exceptional electrical properties and resist practically to all chemical materials</p> <p>3) Perlite is a light gray, glassy volcanic rock with a vitreous, pearly luster and a characteristic concentric or perlitic fracture, subject to heat it will expand 5-20 times.</p>					
<b>Application</b>		<p>1) Vermiculite: widely used for animal feedstuffs, horticulture, light weight concrete, insulation, refractory.....</p> <p>2) Mica, As widely used all over the world, it is a good substitute for asbestos in construction industry, an ideal filling material for paint, dope, rubber and plastic, and its application goes as far as to many other fields like electric welding, fire retardant, electronic products, oil well drilling and nacre dye.</p> <p>3) Expanded perlite exhibits very low thermal conductivity, low sound transmission, high fire resistance, a large surface area and low moisture retention. It is chemically inert, sterile, non-toxic and non-fibrous, free of organic impurities and has a neutral pH. Used for construction, sound reduction, insulation, water repellent, horticulture.</p>					