



Technical Data Sheet Perlite Ore

Updated April 2024

CHEMICAL ANALYSIS	
Silica	74.0%
Aluminium Oxide	14.0%
Ferric Oxide	1.0%
Calcium Oxide	1.3%
Magnesium Oxide	0.3%
Sodium Oxide	3.0%
Potassium Oxide	4.0%
Titanium Oxide	0.1%
Heavy Metals	Trace
Sulphate	Trace
Loss in Ignition	2.5-3.2%
pH (water extract)	6.5-8.0

PHYSICAL PROPERTIES	
Specific Gravity (g/ml)	2.2-2.4 g/ml
Colour	Light brown
Fusion Point (Deg.C)	1260-1340 C
Softening Point (Deg.C)	871-1093 C
Moisture	0.5%

The figures quoted in this data sheet are, to the best of our knowledge, representative of the product. Natural products do vary, so these figures are approximations for guidance only. As conditions of use are beyond our control, no liability is accepted for any loss or damage sustained arising from the use of this information or any products. Because of ongoing developments, the product parameters may be changed without notice.

MICRON/MESH	US	01	02	05	101	105	205	310	428
3.350mm	6							0-10%	10-20%
2.800mm	7							10-25%	35-55%
2.000mm	10						0-20%	40-60%	80-90%
1.180mm	16					0-5%			
1.000mm	18					5-15%	60-75%	95-100%	95-100%
0.850mm	20				0-5%				
0.710mm	25					45-70%			
0.600mm	30			0-15%					
0.500mm	35				65-70%	95-100%	90-100%		
0.425mm	40								
0.300mm	50			90-100%	95-100%				
0.250mm	60		0-12%						
0.150mm	100								
0.075mm	200	0-5%	85 - 100%						
0.053mm	270	0-15%							

TEST METHODS	
Chemicals by XRF	Specific Gravity by water immersion
Moisture by drying 110 Deg.c for 1.5hrs	PSD by dry sieve on BS410 sieves
LOI - Muffle furnace at 1100 C/1.5 hrs	Loose Bulk Density by DIN 53194

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