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Technical Data Sheet Exfoliated Vermiculite

Updated August 2016

CHEMICAL ANALYSIS	
SiO ₂	42.3%
Al ₂ O ₃	11.9%
Fe ₂ O ₃	10.2%
CaO	6.6%
MgO	23.4%
Na ₂ O	0.2%
K ₂ O	4.4%
TiO ₂	0.8%

PHYSICAL PROPERTIES	
Appearance:	Free flowing brown granules
Water Retention:	45% by volume / 530% by weight
Cation Exchange Capacity:	70-90 m.eq/100g
Thermal Conductivity:	0.062 W/m.K
Solubility:	Insoluble in water and organic solvents

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.

GRADE	0	1	2	3	4
Product	Superfine	Superfine	Fine	Medium	Coarse
Loose Bulk Density (kg/m ³)	65-115	65-115	65-115	65-115	65-115
% Retained					
6.70mm					80-90%
4.75mm					90-95%
4.00mm			0-5%	0-50%	
3.35mm					97-99%
2.00mm		0-15%	15-50%	40-85%	
2.00mm			25-55%		99-100%
1.40mm		15-50%	10-55%	5-30%	99-100%
0.70mm	5-20%	35-75%	0-15%	0-2%	99-100%
0.60mm	25-35%	35-75%	0-15%	0-2%	99-100%
0.30mm	65-85%	35-75%	0-15%	0-2%	99-100%
PRIMARY APPLICATIONS	P100	P200	P400	P500	P500
Horticulture			x	x	x
Seed Topping			x		
Absorbant	x	x	x	x	x
Refractory			x		
Brake Lining		x			

TEST METHODS	
Chemicals by XRF	PSD by sieve on BS410 sieves / Laser diffraction - Particle size analyzer
Moisture by drying 110 deg.c for 1.5hrs	Loose Bulk Density by PI200-77
Organic Content - Weight of matter soluble in carbon tetrachloride	Thermal Conductivity per ASTM C518-98
Specific Gravity by water immersion	Compacted Density as per PI 201-77

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