

Molochite™

Product Specification



		Coarse Grades						Intermediate Grades						Milled Grades		
Products		1/4-8	8-16	-8	16-30	16-30DD	18-36DD	22-60DD	-22	30-80DD	-30	50-80DD	-80	-120	-200/-200GL	-325
Metric Equivalent		2.00 to 6.70	1.00 to 2.00	0 to 2.00	0.5 to 1.00	0.5 to 1.00	0.425 to 0.85	0.25 to 0.71	0 to 0.71	0.18 to 0.50	0 to 0.50	0.18 to 0.30	0 to 0.18	0 to 0.125	0 to 0.075	0 to 0.053
MM	BSS Mesh															
9.5	-															
6.70	¼	100 to 99.75														
4.75	3½															
4.00	4	96 52	76													
2.80	6		100 99.75	100 99.75												
2.00	8	16 0	5 98	100 99	100 98											
1.70	10	10 0	2 80	100 91												
1.18	14				100 99	100 99	100 99									
1.00	16	3 0	0 5	15 51	94 76	100 87	100 88	100 99.75	100 99.75							
0.85	18						100 98									
0.71	22		2 0		64 20	41 20	55 41	100 31	68 98	100 86	91 99.75	100 99	100 99			
0.50	30			61 14	31 0	22 6	15 5	14 0	5 0	96 56	76 52	92 94	65 99	100 95	97 97	
0.355	44				5 0	1 0	4 0	1 0	2 0	55 17	30 33	76 45	75 39	51 66	91 71	100 98
0.300	52												100 94	100 94		
0.250	60			40 3	15 0	2 0	1 0	0.25 0	13 0	3 17	60 31	25 0	6 35	71 48	95 49	100 99.75
0.180	85								2 0	1 0		4 0	1 0		14 0	5 72
0.150	100			29 0	8 0	0.25 0	0.25 0		0.25 0	37 6	16 16	3 0	1 16	44 24	5 0	1 98
0.125	120													73 39	52 21	
0.075	200			17 0	2 0				16 2	5 5		18 4	8 8		39 12	85 97
0.053	300													78 66	72 90	94 92
0.020															33 48	59 96
0.010															20 29	36 36
0.002																

Results obtained by dry sieving. Cumulative mass % finer than the denoted sieve aperture.

Key: Maximum

X
X

 Where no maximum and minimum values are shown, then Mean Value is indicative only.
Minimum

X

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	Typical Value	Range	
		Min	Max
Chemical Composition (mass %):			
Al ₂ O ₃	42.0	40.5	43.5
K ₂ O	2.0	1.8	2.2
SiO ₂	54.0		
TiO ₂	0.07		
CaO	0.07		
MgO	0.30		
Fe ₂ O ₃	1.30		
Magnetics [ppm]			
Coarse grades			160
Intermediate grades			250
Milled grades			120
GL grades			50
Mineralogical composition by X-ray diffraction (mass %):			
Mullite	55		
Amorphous material	45		
Thermal expansion			
Coefficient of expansion, 20-1000°C [°C ⁻¹]	4.4 x 10 ⁻⁶		
Specific Gravity	2.70		
Porosity (vol %)	10		
Refractoriness [°C]			
Initial deformation	1750 – 1770		
Squatting	> 1770		
Hardness:			
Moh's scale	7 – 8		

Molochite™ is a trade mark of IMERYS Minerals Ltd

The data quoted is determined by the use of IMERYS Minerals Ltd Standard Test Methods, copies of which will be supplied on request. Every precaution is taken in production to ensure the products conform to our published data.

Since the products are based on naturally occurring materials, we reserve the right to change these data should it become necessary. Sales are in accordance with our "Conditions of Sale", copies of which will be supplied on request.

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