

MULLITE 55

Dupré Minerals Ltd. supplies a range of materials which have been chosen specifically for the investment casting and refractory industries.

Mullite 55 is an exciting mineral launched by Dupré Minerals. It is of the highest quality with a low Iron, Potassium and Sodium oxide level. An exceptionally high quality material, it has a Mullite content of 52% minimum. Mullite 55 is available both in a flour form for slurry tanks and also in a comprehensive range of crushed and graded material produced with an exceptionally low dust content specifically for the investment casting industry.



Typical Physical Properties	
% Mullite	52 %
Hot Expansion Rate	5.9×10^{-6} (0 - 1000°C)
Apparent Porosity	10.7%
Mohs Hardness	7 – 8
pH	6 – 8
P.C.E.	35 min
Moisture	0.035% max
Dust Concentration	300 ppm

Typical Chemical Analysis	
Al ₂ O ₃	48.2 %
SiO ₂	47.2 %
Fe ₂ O ₃	1.2 %
TiO ₂	2.1%
K ₂ O + Na ₂ O	0.3%
CaO + MgO	0.6%
Free Fe	500 ppm

STUCCO GRADES (Typical Particle Size)

Size (mm)	BSS Mesh	50/150 Grade 0.1 – 0.3mm	50/80 Grade 0.18 – 0.3mm	30/80 Grade 0.18 – 0.5mm	22/60 Grade 0.25 – 0.7mm	18/36 Grade 0.425 – 0.85mm	16/30 Grade 1.0 – 0.5mm
1.18	+14						0 – 1
0.85	+18				Trace	1 – 10	20 – 50
0.6	+25			0 – 1	10 – 20	30 – 60	20 – 50
0.425	+36	0 – 1	0 – 1	10 – 30	20 – 50	30 – 60	10 – 30
0.3	+52	1 – 10	1 – 10	20 – 50	20 – 50	1 – 10	0 – 10
0.212	+70	20 – 50	60 – 90	20 – 40	10 – 20	Trace	Trace
0.15	+100	30 – 50	10 – 30	1 – 10	1 – 10		
0.106	+150	10 – 30	1 – 10	Trace	Trace		
0.075	+200	1 – 10					

FLOUR GRADES (Typical Particle Size)

Size (mm)	BSS Mesh	-120 Grade	-200 Grade
0.106	+150	1 – 10	
0.075	+200	10 – 20	Trace
0.045	+325	20 – 40	10 – 20
<0.045	-325	40 – 60	80 – 90



Information presented above is given in good faith as accurate and reliable but is not to be taken as a guarantee. The figures provided are intended to be a guide to expected average values and should not be interpreted as a specification. Any potential applications referred to are not to be construed as recommendations. It is the responsibility of the user to determine suitability for any specific purpose.

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