

MULCOA® CALCINES

REFRACTORY CALCINED MULLITE

MULCOA® refractory calcines are made from the highest purity ore deposits. A unique process and stringent process controls ensure homogeneous and consistent mineralogy. MULCOA's high mullite content and product uniformity creates the best refractory aggregate to meet the exacting quality demands of the modern refractory industry.

	MULCOA 47		MULCOA 60		MULCOA 70	
CHEMICAL ANALYSIS (%)	TYPICAL	SPECIFICATIONS	TYPICAL	SPECIFICATIONS	TYPICAL	SPECIFICATIONS
Al ₂ O ₃	46.8	46.0 Min	58.6	58.0 Min	68.8	68.0 Min
SiO ₂	50.0	-	37.8	-	26.8	-
TiO ₂	1.89	-	2.21	-	2.82	-
Fe ₂ O ₃	0.95	1.0 Max	1.13	1.35 Max	1.22	1.5 Max
CaO	0.04	-	0.06	-	0.06	-
MgO	0.08	-	0.07	-	0.07	-
Na ₂ O	0.09	-	0.07	-	0.07	-
K ₂ O	0.09	-	0.04	-	0.05	-
P ₂ O ₅	0.09	-	0.10	-	0.11	-
MINERALOGY						
% Mullite	65	-	77	-	87	-
% Glass	20	-	23	-	13	-
% Cristobalite	15	-	Tr	-	-	-
PHYSICAL PROPERTIES						
Bulk density (ASTM C-357, gm/cc)	2.62	2.60 Min	2.78	2.75 Min	2.88	2.80 Min
Apparent porosity (%)	3.8	-	3.5	-	4.0	-
PCE	35 (3245°F)	-	37 (3308°F)	-	39 (3390°F)	-
2800°F (1540°C) REHEAT CHANGE						
B.D. (gm/cc)	2.60	-	-	-	-	-
Volume (%)	+ 1.5	-	-	-	-	-
2910°F (1600°C) REHEAT CHANGE						
B.D. (gm/cc)	-	-	2.78	-	2.88	-
Volume (%)	-	-	0	-	0	-

This information is based on historical sampling results of Imerys products. However, this information does not constitute any representation, condition or warranty, nor is it indicative of any individual lot or unit of product. Absent a valid written agreement to the contrary, this information may not be relied upon by any customer or user of Imerys products for any purpose, and all sales are made on the condition that Imerys will not be held liable for any damages resulting from the use of its products.

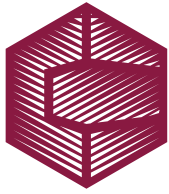


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GRAIN SIZE SPECIFICATIONS (% RETAINED)

TYLER SIEVE	2 1/2	3	4	6	8	20	28	35	48	60	100	200	325	
USS SIEVE GRADE	5 1/16" 8 mm	0.265 6.7 mm	4 4.75 mm	6 3.35 mm	8 2.36 mm	20 850 μm	30 600 μm	40 425 μm	50 300 μm	60 250 μm	100 150 μm	200 75 μm	325 45 μm	PAN*
3M	TR	0 - 5	15 - 25		30 - 45	15 - 30								10 - 25
4M		TR	0 - 5		28 - 42	32 - 48								17 - 28
6M			TR	TR - 3	10 - 22	35 - 55								30 - 45
8M				TR	0 - 5	40 - 55				20 - 35				15 - 30
3 X 4	TR	0 - 4	54 - 70											28 - 44
3 X 8	TR	0 - 4	15 - 25		53 - 70									10 - 23
4 X 8		TR	0 - 4		70 - 86									15 - 25
4 X 20		TR	0 - 2		46 - 62	35 - 51								0 - 4
6 X 20				0 - 5	15 - 25	60 - 85								0 - 10
8 X 20				TR	0 - 6	69 - 89								10 - 26
20M						TR - 5		15 - 50						5 - 25**
35M						TR			10 - 30					15 - 45**
48M							TR					55 - 65		35 - 45
100M								TR				35 - 45		55 - 65
200M										TR		15 - 32		68 - 85
325M										TR			15 - 25	75 - 85

*PAN designates the percentage of material passing the last reported screen for each size.

** This data reflects material passing 100 mesh screen.

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