

MULGRAIN™ Grains and Flours

PRODUCT DATA

MULGRAIN 47™, MULGRAIN 60™, MULGRAIN 70™

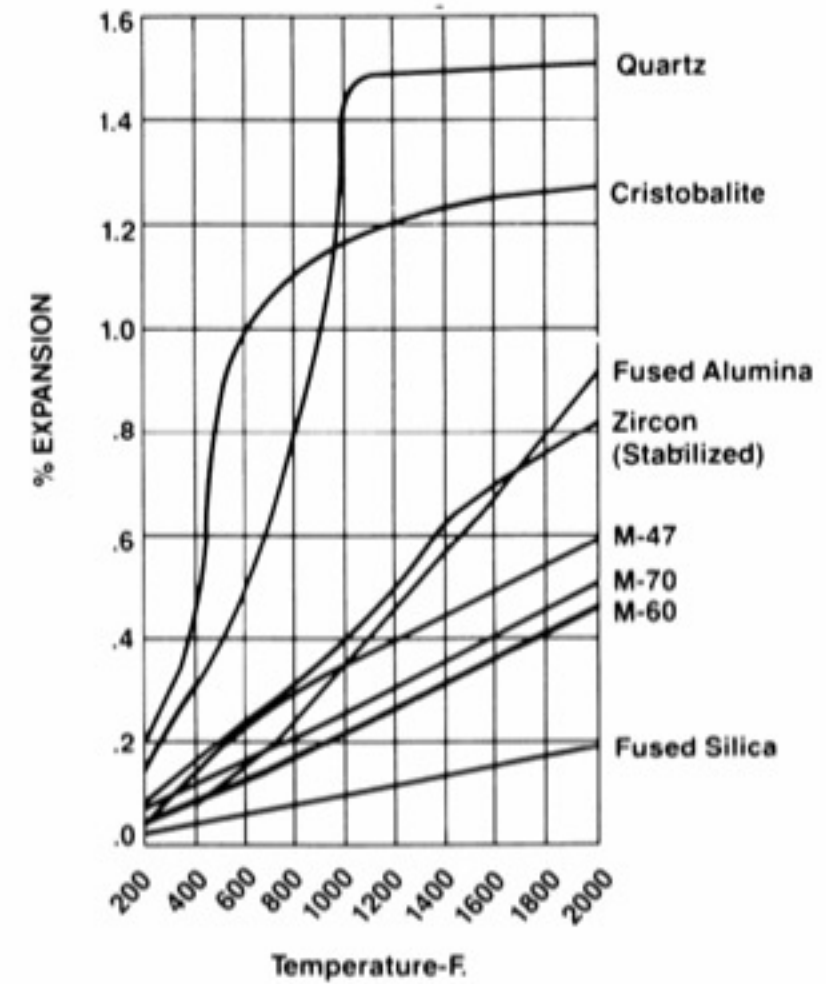
Description:

MULGRAIN grains and flours are produced from custom calcined Mulcoa aggregates that are precisely sized through a series of screens, and custom blended to obtain a series of sizes. During screening the grains are de-dusted to ensure a virtually dust free stucco. Mulgrain flours are produced by the milling of our Mulcoa materials in ceramic-lined mills to the required particle size distribution.

Applications:

MULGRAIN grains and flours are superior ceramic refractory mold media. These precision sized products are specially designed to meet today's demanding investment casting requirements.

Thermal Expansion Traces:



Chemical Analysis (%):

	MULCOA 47	MULCOA 60	MULCOA 70
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	0.08
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

Physical Properties:

	MULCOA 47	MULCOA 60	MULCOA 70
Bulk Density (ASTM C-357, g/cc)	2.62 (2.60 min)	2.78 (2.75 min)	2.88 (2.80 min)
Apparent Porosity, %	3.6	2.8	4.0
PCE	35 (3245°F)	37 (3308°F)	39 (3390°F)
2800°F (1540°C) Reheat Change			
B.D. g/cc	2.60		
% Volume	+1.5		
2910°F (1600°C) Reheat Change			
B.D. g/cc		2.78	2.88
% Volume		0	0

Mineralogy:

	MULCOA 47	MULCOA 60	MULCOA 70
% Mullite	65	77	87
% Glass	20	23	13
% Cristobalite	15	Tr	-

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