

ACCUCAST FLOUR

The high quality, consistency and purity of ACCUCAST FLOUR improves refractoriness and offers lower thermal expansion and greater compatibility than silica flour. It is inert and does not produce measurable respirable crystalline silica.



Physical properties

Typical size gradation (%)	ACCUCAST FLOUR LD Low-density ceramic flour			ACCUCAST FLOUR ID Intermediate-density ceramic flour			ACCUCAST FLOUR HT High-temperature ceramic flour		
	400	325	200	400	325	200	400	325	200
Grade									
<200 mesh (75µm)	100	83	56	100	77	52	100	77	52
<325 mesh (45µm)	99	62	32	99	58	30	99	58	30
<635 mesh (20µm)	70	43	10	65	40	9	65	40	9

Typical additional properties

Bulk density (g/cm ³) (lb/ft ³)	1.25 78	1.60 100	1.80 112	1.37 86	1.90 119	2.14 134	1.32 82	1.83 108	2.06 128
Heat capacity Cp, cal/g-°C @200°C @1,000°C		0.17 0.21		0.17 0.23			0.23 0.29		
Absolute density (g/cm ³)		2.88		3.49			3.30		
pH		7.2		7.4			7.4		
Acid demand value @pH 5 @pH 7		0.7 0.3		0.6 0.2			0.6 0.7		

Data is subject to change due to continuous improvement of the product.

Chemical composition (weight %)

	Mullite, cristobalite and amorphous phase	Mullite, corundum and amorphous phase	Mullite, corundum and amorphous phase
Al ₂ O ₃	45-55	65-80	72-80
SiO ₂	40-55	10-15	12-24
Fe ₂ O ₃	1-5	5-10	1-5
TiO ₂	1-5	1-5	1-4

Thermal expansion coefficient (@1100°C)

1E-6 in/in-°C	6.21	6.62	2.0
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Talk to CARBO to find out how we can help you enhance your production.

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CARBO

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