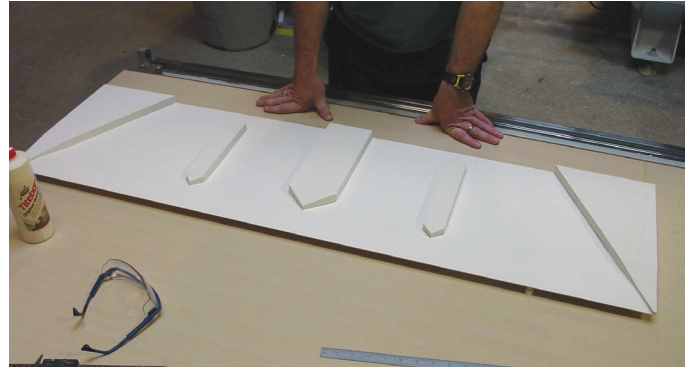




Alumina-Silica Type Z-118C

General Information

Alumina-Silica Type Z-118C is a combination of low-shot ceramic fiber, inorganic fillers and refractory binders. Prefired to remove chemically-combined water, Z-118C is free of organics and will not outgas. Z-118C exhibits a tightly-bonded, medium-density, fine texture making it ideal for precision machining into shapes requiring tight dimensional controls, such as castertips and baffles for continuous aluminum sheet casting.



Characteristics & Properties

Composition, %	
Al ₂ O ₃	50.4
SiO ₂	42.9
Other	6.7
Weight Loss, %	
after 24 hrs @ 760°C	1.55
after 24 hrs @ 1000°C	2.15
Firing Shrinkage, % (Average of L & W)	
After 24 hr @ 1000°C (1832°F)	1.9
Flexural Strength, g/cc (psi)	
After 24 hr @ 760°C (1400°F)	0.65 (280)
After 24 hr @ 1000°C (1832°F)	0.71 (308.9)
Compressive Strength at 10% Compression, g/cc (psi)	
After 24 hr @ 760°C (1400°F)	0.23 (98.1)
After 24 hr @ 1000°C (1832°F)	0.24 (103.9)
After 24 hr @ 1000°C (1832°F)	0.19 (82.2)

The data presented herein is intended to help the user to determine the appropriateness of this material for their application. This data is a nominal representation of this product's properties and characteristics and therefore should not be used in preparing specifications.

Suggested Applications

Castertips and baffle components for continuous casting of non-ferrous metal sheet.
Machined thermal insulation components.
Primary and backup thermal insulation to temperatures of 1100°C.

Availability

Z-118C is manufactured to order. Rectangular boards as long as 1829mm (72") and precision CNC machined components are available upon request. Please contact ZIRCAR Ceramics to review your requirements.

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Page 1 of 1
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