Foundry and Refractory Mineral Sands

Zircon • Alumina Silicates • Staurolite • Titanium

Introducing AlZiPure™

AlZiPure[™] Qualities

- Rounded
- Non-metallic
- Reduced burn-in
- Typically 4% zircon
- Ultra low free silica
- Superior surface finish
- Low thermal expansion

AlZiPure[™] Cost Savings

- Less rework
- Reclaimable
- Competitive price
- Reduced binder ratios
- Less blasting/grinding

AlZiPure[™] **Applications**

- Refractory
- Facing Sand
- Bedding Sand
- Metal Castings
- Molds and Cores
- Specialty Sands
- Detailed Casting
- Green Sand Molding









AlZiPure[™] Casting



AlZiPure Alumina Silicate Foundry and Refractory Mineral Sand

Chemistry	
	Typical %
Al_2O_3	59.5
ZrO ₂	2.8
Fe ₂ O ₃	0.5
TiO ₂	0.7
Quartz	<1

Particle Size	
U.S. Sieve	% Retained on Sieve
50	6
70	38
100	50
140	6
200	<1
270	Trace
PAN	Trace
AFS GFN	61

Properties	
	Typical %
Deformation Temperature	>3279 °F
Pyrometric Cone Equivalent	>36 PCE
Bulk Density (Uncompacted)	135 lb/ft³
Specific Gravity	3.53 g/cc
Loss on Ignition (at 1000 °C, 24 hr, air)	0.21 wt%
рН	6.0-8.5 pH
Coefficient of Linear Expansion	4.60x10 ⁻⁶ in/in °F
Specific heat (at 800 °F in atmosphere)	0.253 Btu/lb
Heat Transfer Coefficient	2,460 W/(m ² °C)



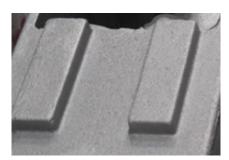
Silica Sand — no zircon wash



AlZiPure™ — no zircon wash



Gray Iron Silica Sand Casting showing burn-in



Gray Iron AlZiPure™ Casting shows no burn-in



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Photos courtesy of Southern Cast Products

For more information, visit Chemoursabrasives.com