

TECHNICAL DATA

T-CAST® PRODUCTS

T-CAST® ALL ALUMINA formulations were developed for use in applications where the presence of silica would be detrimental in high temperature reducing atmospheres such as those encountered in syngas processes or hydrogen fuel cells. These products are formed from polycrystalline alumina fibers and high purity alumina binders and are available in several densities with varying degrees of insulating properties.

<u>FORMULA:</u>	AA-15	AA-30	AA-45
<u>Typical Physical Properties:</u>			
Color	Snow-White	Snow-White	Snow-White
Bulk Density (lbs/ft ³)	13-17	28-32	43-47
Continuous Use Temperature (°F)	2900	2900	2900
Intermittent Use Temperature (°F)	3000	3000	3000
Flexural Strength M.O.R. (lbs/in ²)	100	250	750
Linear Shrinkage (%) @ Use Temp. (24 Hrs)	5.0 Maximum	5.0 Maximum	5.0 Maximum
Melting Point (°F)	>3350	>3350	>3350
<u>Typical Chemical Properties:</u>			
SiO ₂ :	3.0%	2.0%	<2.0%
Al ₂ O ₃ :	97.0%	98.0%	>98.0%
Loss on Ignition:	0.0%	0.0%	0.0%
<u>Thermal Conductivity (Btu-in/hr-ft²-°F):</u>			
<u>Mean Temperature (°F):</u>			
500	0.41	0.66	1.12
1000	0.61	0.86	1.43
1500	0.92	1.11	1.61
2000	1.31	1.31	2.04
2500	1.81	1.62	2.53
3000	2.04	1.85	3.05

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