BLASCH PRECISION CERAMICS — Where your ideas take SHAPE in CERAMIC

ProCaster – Z (087)
Material Designation BP86/6-MAZ

Blasch Procaster-Z is a Mullite bonded Alumina Zirconia designed for outstanding thermal shock resistance coupled with excellent corrosion resistance. Procaster-Z was specifically developed for high temperature molten nickel, cobalt and stainless alloy applications in aerospace, medical and industrial applications.

Chemical Analysis (typical) Classification: Mullite Bonded Alumina Zirconia	
Alumina (Al_2O_3)	Balance
Zirconia (ZrO_2)	5.0% min
Silica (SiO_2)	7.0% max
Alkalies ($Na_2O + K_2O + Li_2O$)	0.3%
Iron Oxide (Fe_2O_3)	0.08%
Lime (CaO)	0.03%

Physical Properties (typical)		
Bulk Density lbs/ft³ (g/cm³)	179-184	2.87-2.95
Fired Apparent Porosity	20-23%	20-23%
Maximum Service Temperature		
1,650C (3,000F) continuous use, 1,760C (3200F) intermittent use		
Modulus of Rupture (MOR) lbs/in² (MPa)		
Room temp	1,700	11.7
Modulus of Elasticity (E) lbs/in² (GPa)	$3.5x10^6$	24.0
Thermal Shock Resistance	Excellent	Excellent
Molten Metal Resistance	Excellent	Excellent

Product Photos & Applications

Melt Crucibles

Launders & Tundishes

InterLok Linings

Nozzles & Other

ASTM test methods used where applicable for determination of test data. The information provided is based upon the best laboratory data available. No guarantee or warranty is implied; data is not to be used for specification purposes.