

SPARCON 85Z

SPARCON 85Z is a high purity, 85% zircon, low-cement, vibrating castable.

PHYSICAL PROPERTIES

Maximum Service Temperature		2900°F
Dry Castable Requirement		208 lbs./cu.ft.
Mix Water Required (% by weight)	Vibration	3.5 – 4.0%
Modulus of Rupture		
After Drying at 230°F		2000-3000 lbs/sq.in.
After Heating to 1700°F		3000-4000 lbs/sq.in.
Cold Crushing Strength		
After Drying at 230°F		10000-14000 lbs/sq.in.
After Heating to 1700°F		15000-21000 lbs/sq.in.
Linear Change, %		
After Drying at 230°F		0.0 to -0.2
After Heating to 1700°F		0.0 to -0.3
Erosion Resistance (ASTM C704)		
After Heating to 1700°F		Less than 12 cc loss (Typical: 8 – 10 cc loss)
Typical Chemical Analysis, %		
Al ₂ O ₃		8.0
ZrO ₂		56.3
SiO ₂		33.3
CaO		1.8
TiO ₂		0.2
Fe ₂ O ₃		0.2
MgO		0.1
Alkalies		0.2

SPARCON 85Z is available in 50# bags or 1000#, 2000#, and 3000# bulk bags, palletized and shrink-wrapped. Store in a dry place.

Data shown are average results of standard ASTM tests unless otherwise noted. Results may vary subject to variations in manufacturing, testing, and installation procedures in the field.