

## SPARCAST LC 99 X-3 PRODUCT INFORMATION

**SPARCAST LC 99 X-3** is a high purity alumina / spinel / chromic oxide low cement castable. It is very resistant to hot metal / slag, erosion, and corrosion.

### PHYSICAL PROPERTIES

Maximum Service Temperature	3300°F
Dry Castable Requirement	195 - 200 pcf
Mix Water Required %	4.0 – 4.5
Bulk Density after 230°F	195 - 200 pcf
Modulus of rupture	
After Drying at 230°F	1600-2080 psi
After Heating to 1500°F	1800-2200 psi
After Heating to 2250°F	1800-2500 psi
After Heating to 2910°F	2300-2800 psi
Cold Crushing Strength	
After Drying at 230°F	7650-9750 psi
After Heating to 1500°F	7200-11000 psi
After Heating to 2250°F	8250-13000 psi
After Heating to 2910°F	10300-16000 psi
Linear Change, %	
After Drying at 230°F	0.0 to -0.5
After Heating to 1500°F	0.0 to -0.2
After Heating to 2250°F	0.0 to -0.5
After Heating to 2910°F	+0.2 to +0.8
Typical Chemical Analysis, %	
Al <sub>2</sub> O <sub>3</sub>	92.3
Cr <sub>2</sub> O <sub>3</sub>	2.9
CaO	1.4
MgO	4.1
Other	0.2

The above are average results and do not constitute a specification.

**SPARCAST LC 99 X-3** is available in 50# or 100# bags, and in various bulk bag sizes, palletized and shrink-wrapped.

**NOTE: CASTABLE MUST BE STORED IN A DRY PLACE**