

XERCAST 80-AL PRODUCT DATA SHEET

XERCAST 80-AL is a high alumina, low cement, and low moisture castable designed to be used in a wide variety of applications due to its minimum porosity and linear change with maximum density and high fired strengths. This material can be used in applications which require high temperature resistance and is applicable for service in non-wetting metal contact applications up to 2200°F.

Typical applications include primary and secondary aluminum melting and holding furnaces, ladles, die casting holding furnaces among others.

Maximum Service Temperature	3200°F (non-wetting 2200°F)
Water Required for Mixing (as a % of weight)	4.4 – 5.4 %
Material Required Per Cubic Foot	180 lbs.
Packaging	64 - 55lb bags / pallet 1,000+lb Super Sacks

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃	SiO ₂	CaO	TiO ₂	Fe ₂ O ₃	Other
79.7	12.2	1.9	2.9	1.2	2.1

TYPICAL PHYSICAL PROPERTIES

Test Temperature (°F)	Bulk Density (pcf)	C.C.S. (psi)	CMOR (psi)	Apparent Porosity (%)	Permanent Linear Change (%)
220	174 - 181	10000	2000	10 - 14	Nil
1500	173 - 178	10000	2000	12 - 16	-0.3 to 0.0
2732	170 - 175	9000	1800	15 - 19	+0.3 to +1.2

Xertech Specialties
1422 Hoelzer Ct.
Dailey Industrial Park
Pacific, MO 63069
Ph: (636) 271-0586; Fax: (636) 271-0587

www.xertechllc.com
mail@xertechllc.com

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