



CAROLITE AL

2020

CAROLITE AL is a hydraulic setting insulating castable with excellent aluminum penetration resistance and thermal conductivity characteristics. Superior properties when used as a working lining in contact with molten aluminum, or as a backup lining to heavy monolithics. Gunning version of CAROLITE AL also exhibits same excellent properties.

Maximum recommended service temperature.....2500°F

<u>Test Temperature</u>	<u>Modulus of Rupture,</u> <u>p.s.i.</u>	<u>Linear Change %</u>
220°F	1050 – 1200	-0.1
1500°F	700 – 850	-0.1
2000°F	900 – 1100	+0.3
2400°F	1200 – 1450	+2.4

<u>Test Temperature</u>	<u>Thermal Conductivity</u>
500°F	2.3
1000°F	2.8
1500°F	3.0
2000°F	3.6

Chemical Analysis (%)

Alumina (Al ₂ O ₃)	50.4
Silica (SiO ₂)	33.2
Iron (Fe ₂ O ₃)	1.1
Titania (TiO ₂)	1.0
Lime (CaO).....	4.4
Magnesia (MgO).....	0.1
Alkalies.....	1.6

Water required for mixing 6 to 7 qtrs. Per 60# bag.

Material required for estimating – 80 lbs./ft³

Packaged in 60-pound bags, forty bags per pallet (2400 pounds)