

PRODUCT BULLETIN

LCF 798A

LCF 798A is an andalusite-based, low moisture castable designed for ferrous and non-ferrous refractory applications. This product is well suited for use in molten metal contact applications; such as tundish linings, ladle linings, launder systems and non-ferrous channel furnace uppercases. LCF 798A is also ideal for refractory shapes, covers, combustion systems, heat treatment furnaces and other heat containment applications. The excellent thermal shock resistance of the andalusite aggregate makes this an excellent material to pre-cast burner blocks. This formula is not for pumping; use LCF798A PUMP for that requirement. This product offers the following benefits and features:

- Excellent volume stability
- Organic fiber addition to minimize dryout time
- Outstanding thermal shock resistance

Data

Temperature	°C	110	980	1315	1480	1600
	°F	230	1800	2400	2700	2910
Density	g/cm ³	2.72	2.64	2.63	2.61	-
	lb/ft ³	170	165	164	163	-
PLC	%	0	0.1	0.4	0.7	0.7
MOR	MPa	16.5	7.6	7.0	15.9	13.8
	psi	2395	1100	1015	2305	2000
CCS	MPa	-	-	34.5	-	83.9
	psi	-	-	5000	-	12175
Porosity	%	-	-	14.0	-	-
Thermal Conductivity	W·m ⁻¹ ·K ⁻¹	-	-	-	-	1.7
	BTU in ft ² ·hr ⁻¹ ·°F	-	-	-	-	11.8

Set Times & Water Requirements

	Casting/Vibration
Water Required	5.4 – 5.9%
Working Time	45 minutes
Initial Set	2 – 3 hours
Final Set	4 – 6 hours
Remove forms 18 hours after casting	

Chemical Analysis *Major Components

Al ₂ O ₃	61.5%
SiO ₂	35.0%
CaO	2.1%
Fe ₂ O ₃	0.7%
Others	0.7%

Product Information

Material Required	2.64 g/cm ³ (165 lb/ft ³)
Grain Size	8 mm (5/16 mesh) and finer
Maximum Practical Use Temperature	1705°C (3100°F)
Installation Method	Casting/Vibration

Packaging Information

Standard Packaging	25 kg (55 lb) multi-wall paper bags
Bulk Bag Packaging	Available upon request
Note:	Storage beyond 6 months is not recommended. Store in a dry location to avoid moisture pickup.

(LCF798)
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Allied Mineral Products, Inc. supplies an entire line of monolithic refractories for the metals industry. For more information or a complete evaluation of your refractory requirements, please contact your local Allied representative.

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