

PRODUCT BULLETIN

2700 Scioto Parkway Columbus, Ohio 43221 USA 614/876-0244 Fax: 614/876-0981
www.alliedmineral.com



**ALLIED
MINERAL**
PRODUCTS, INC.

MATRIFLO AL C

General Information

MATRIFLO AL C is a high alumina, coarse aggregate, low cement refractory castable. MATRIFLO AL C contains a non-wetting additive giving it excellent resistance to molten aluminum, salt fluxes and other light metal alloys.

Technical Data

Chemical Analysis*

Al ₂ O ₃	85.3%
SiO ₂	8.4%
TiO ₂	2.7%
CaO	2.1%
Fe ₂ O ₃	1.1%

*Proprietary ingredients not included.

Material Required.....	2.82 g/cm ³ (176 lb/ft ³)
Grain Size	25 mm (1 inch) and finer
Maximum Application Temperature	1540°C (2800°F)
Installation Method	Vibration

Vibration Cast Data

Temperature		Density		PLC [†]	MOR		CCS		Porosity	Abrasion Loss
°C	°F	g/cm ³	lb/ft ³	%	MPa	psi	MPa	psi	%	cm ³
110	230	2.84	177	-	15.5	2250	96.5	14000	10.3	3-5
815	1500	2.82	176	-0.1	14.0	2030	73.8	10700	18.1	4-6
1090	2000	2.77	173	0.0	11.8	1710	-	12200	20.3	-
1370	2500	2.87	179	-1.4	18.8	2720	80.7	11700	16.9	-

†Permanent Linear Change

Packaged in 25 kg (55 lb) multi-wall paper bags. Also available in bulk packaging. Storage beyond 6 months is not recommended. Store in a dry location to avoid moisture pickup.

Hydraulic Set and Water Requirements

Water Required:	5.2 - 5.8%
Working Time:	1 - 2 hours
Initial Set:	1 - 4 hours
Final Set:	2 - 8 hours

Allied Mineral Products, Inc. supplies a complete 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.

Warning: Contains aluminum oxide, aluminosilicate, cement and silica. The International Agency for Research on Cancer (IARC) has classified crystalline silica inhaled in the form of quartz or cristobalite carcinogenic to humans. Refer to Material Safety Data Sheet for additional information and disposal instructions. Wear NIOSH approved respirator during installation, removal and disposal of product to prevent inhalation of dust. Wear long-sleeved, loose-fitting clothing when handling the material. Gloves and eye protection should be worn. Wash with soap and warm water after handling. Wash work clothes separately and rinse out washer. In case of eye contact, flush immediately and repeatedly with water and consult a physician. Steam spalling, which can lead to personal injury, may result from improper drying and firing procedures. In case of eye contact, flush immediately and repeatedly with water and consult a physician. For safest use and optimum performance, proper practices must be followed.

(MXMFALC)

Revised 11/12/15

© 2015 Allied Mineral Products, Inc.

THE INFORMATION STATED IS BASED ON THE BEST LABORATORY AND LITERATURE DATA AND IS NOT A WARRANTY OR A GUARANTEE, NOR A VIOLATION OF ANY PATENT. IT IS PRESENTED FOR CONSIDERATION AND VERIFICATION ONLY, AND IS NOT TO BE USED FOR SPECIFICATION PURPOSES.