



ARTECH TECHNOLOGIES INC
Superior Abrasion Resistant Materials

ACTCHEM[®] MP

PRODUCT DATA

Actchem[®] MP is a single component, air setting castable with exceptional abrasion resistance, cold crushing strength and chemical resistance which can be hand packed or rammed in thin lining applications. It has a unique bonding system which allows a wide range of water addition and working times of 60-90 minutes. Enhanced workability and non-slumping features achieve greater installation productivity. This product can be gunned up to 5 inches with low rebound losses using standard gunning equipment and needle valve water control.

Actchem[®] MP was designed for use in a wide range of industrial applications within cement manufacturing, incineration, power plants, and iron processing.

Typical Applications

- Cement clinker grinding mills
- Pneumatic transport systems for cement
- Dust collection systems
- Dynamic and static separators
- Cyclones
- Flash dryers
- Circulating fluidized bed boilers

Service Temperature 2300°F **Water Required** 4.5 to 5.5%
Abrasion Loss (ASTM C-704) ≤ 3 cc **Material Required** 185 lb/ft³

Thermal Conductivity

Mean Temp.	Btu-in./hr/ft ² /°F	W/m/K
1500°F	20.8	2.99
2000°F	21.8	3.14

Physical Properties

Test Temperature (°F)	Bulk Density (pcf)	Cold Crushing Strength (psi)	Modulus of Rupture (psi)	Permanent Linear Change (%)	Apparent Porosity (%)
230	180 – 185	15,000	3,500	-0.1 to -0.2	8
1000	175 – 185	> 20,000	4,000	-0.2 to -0.4	11
1500	175 – 185	> 20,000	4,500	-0.2 to -0.4	14

Chemical Analysis

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	P ₂ O ₅	Alkalies
83.7	8.5	0.9	2.1	2.5	1.3	1.0

Packaging: 55 lb. bags at 72 per pallet

The data shown represents typical results obtained by testing using ASTM or other acceptable procedures as required. They are subject to normal manufacturing variations and can not be used for specification purposes. Artech Technologies, Inc. assumes no liability for the use of this data and provides no warranty expressed or otherwise for its accuracy.