



ARTECH TECHNOLOGIES INC
Superior Abrasion Resistant Materials

ACTCHEM[®] FS-PC

PRODUCT DATA

Actchem[®] FS-PC is a single component, fused silica and mullite based, low cement castable with very good abrasion resistance and low thermal expansion. The product is a self flowing pump cast mix which can also be installed by vibration casting or shotcrete methods.

Actchem[®] FS-PC has been developed specifically for applications where dimensional stability, thermal shock resistance, and some abrasion resistance are required.

Service Temperature* 2500°F

Material Required 135 lb/ft³

*non-cyclic conditions

Physical Properties

	Test Temperature (°F)	Bulk Density (pcf)	Cold Crushing Strength (psi)	Modulus of Rupture (psi)	Permanent Linear Change (%)	Typical Abrasion Resistance (cm ³)
Vibration Cast 6.0% Water	230	135	12,000	850	0.0 to -0.1	-
	1500	134	10,000	800	0.0 to -0.2	7
	2000	134	10,000	800	0.0 to -0.4	10
Pump Cast 6.5% Water	230	135	12,000	1,000	0.0 to -0.1	-
	1500	134	9,000	800	0.0 to -0.2	9
	2000	134	8,000	700	0.0 to -0.4	11
Self Flow 7.75% Water	230	131	9,000	800	0.0 to -0.1	-
	1500	130	8,000	700	0.0 to -0.2	10
	2000	130	7,000	700	0.0 to -0.4	13

Chemical Analysis

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	Alkalies
32.8	64.3	0.2	0.4	2.1	0.1

Packaging: 50 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.