



ARTECH TECHNOLOGIES INC
Superior Abrasion Resistant Materials

ACTCHEM[®] 85 VC

PRODUCT DATA

Actchem[®] 85 Vibration Cast is a single component castable with exceptional abrasion resistance, cold crushing strength and chemical resistance.

Actchem[®] 85 Vibration Cast has a unique bonding system which allows a wide range of water addition, provides long working times and ease of installation.

Actchem[®] 85 Vibration Cast is designed for vibe casting in severe abrasion applications.

Typical Applications

- Refineries (F.C.C.U. catalyst transfer lines, riser lines, cyclones)
- Steel plants
- Incineration (fluidized bed boilers)
- Cement
- Aluminum

Service Temperature 2800°F

Abrasion Loss (ASTM C-704) ≤ 4 cc

Water Required 4 to 5%

Material Required 190 lb/ft³

Physical Properties

Test Temperature (°F)	Bulk Density (pcf)	Cold Crushing Strength (psi)	Modulus of Rupture (psi)	Permanent Linear Change (%)	Apparent Porosity (%)
75°F (7-day cure)	185 – 190	11,000	2,200	Nil	2.1
230	183 – 188	>13,000	3,000	Nil	5.0
1000	180 – 186	>13,000	6,100	-0.2	14.1
1500	180 – 186	>13,000	5,300	-0.4	14.7

Chemical Analysis

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	P ₂ O ₅	Alkalies
85.8	8.3	0.8	2.2	2.4	0.1	0.4

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.