



ARTECH TECHNOLOGIES INC
Superior Abrasion Resistant Materials

ACTCHEM[®] 45 VC-S

PRODUCT DATA

Actchem[®] 45 Vibration Cast - S is a single component, air setting castable with an excellent abrasion resistance which can be easily vibration cast into location without the requirement of high intensity, high frequency vibration.

Actchem[®] 45 Vibration Cast – S has a unique bonding system which allows a wide range of water addition, provides long working times and ease of installation. Early high strength and low abrasion is achieved at ambient temperatures.

Actchem[®] 45 Vibration Cast – S can be used in a wide range of applications and is designed for use in steel applications where high abrasion resistance and greater insulation is desired.

Service Temperature	2700°F	Water Required	6 to 7%
Abrasion Loss (ASTM C-704)	≤ 7 cc	Material Required	145 lb/ft ³

Physical Properties

Test Temperature (°F)	Bulk Density (pcf)	Cold Crushing Strength (psi)	Modulus of Rupture (psi)	Permanent Linear Change (%)
Ambient	142 – 147	> 7,000	1,000	Nil
230	137 – 145	> 10,000	2,000	0.0 to -0.1
660	137 – 144	> 12,000	1,500	-0.1 to -0.2
1500	137 – 141	> 14,000	1,500	-0.2 to -0.3

Chemical Analysis

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	P ₂ O ₅	Alkalies
43.3	49.4	0.9	1.8	3.2	0.4	1.0

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.