



ARTECH TECHNOLOGIES INC
Superior Abrasion Resistant Materials

ACTCHEM[®] 45 VC

PRODUCT DATA

Actchem[®] 45 Vibration Cast 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 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 can be used in a wide range of applications, but typical areas of use include fan housings, burner throats in boilers, chutes and other severe abrasion applications where greater insulation is desired.

| | | | |
|-----------------------------------|--------|--------------------------|------------------------|
| Service Temperature | 2700°F | Water Required | 5.5 to 6.5% |
| Abrasion Loss (ASTM C-704) | ≤ 7 cc | Material Required | 144 lb/ft ³ |

Physical Properties

| Test Temperature (°F) | Bulk Density (pcf) | Cold Crushing Strength (psi) | Modulus of Rupture (psi) | Permanent Linear Change (%) |
|-----------------------|--------------------|------------------------------|--------------------------|-----------------------------|
| Ambient | 142 – 148 | > 7,000 | 1,000 | Nil |
| 230 | 139 – 147 | > 10,000 | 2,000 | 0.0 to -0.1 |
| 660 | 139 – 146 | > 12,000 | 1,500 | -0.1 to -0.2 |
| 1500 | 138 – 144 | > 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 |
|--------------------------------|------------------|--------------------------------|------------------|-----|-------------------------------|----------|
| 43.4 | 49.2 | 1.0 | 1.7 | 3.3 | 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.