



ARTECH TECHNOLOGIES INC  
*Superior Abrasion Resistant Materials*

# ACTCHEM<sup>®</sup> 45 TF

## PRODUCT DATA

**Actchem<sup>®</sup> 45 Trueflow** is a single component, air setting castable with an excellent abrasion resistance. This product is self leveling, flowing easily around any obstruction or anchor system to form a complete monolithic lining.

**Actchem<sup>®</sup> 45 Trueflow** exhibits early high strength and low abrasion is achieved at ambient temperatures. Mixing in a paddle mixer for 7 – 10 minutes produces a product that is extremely easy to install, even in high ambient temperatures, thereby promoting greater productivity.

### Typical Applications

- Refineries (F.C.C.U. catalyst transfer lines, riser lines, cyclones)
- Fluidized bed boilers, steel plants, aluminum furnaces, incinerators

<b>Service Temperature</b>	2700°F	<b>Water Required</b>	7.5-8.0%
<b>Abrasion Loss (ASTM C-704)</b>	< 7 cc	<b>Material Required</b>	144 lb/ft <sup>3</sup>

### Physical Properties

Test Temperature (°F)	Bulk Density (pcf)	Cold Crushing Strength (psi)	Modulus of Rupture (psi)	Permanent Linear Change (%)
230	141 – 147	> 7,000	1,000	Nil
660	140 – 146	> 8,000	1,500	-0.1 to -0.3
1500	139 – 145	> 12,000	1,500	-0.2 to -0.4

### Chemical Analysis

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	Alkalies
48.5	46.5	0.3	0.4	3.2	1.1

**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.