



ARTECH TECHNOLOGIES INC
Superior Abrasion Resistant Materials

ACTCHEM[®] 45 TF

PRODUCT DATA

Actchem[®] 45 Trueflow is a single component, medium weight, air setting castable with excellent abrasion resistance and installation versatility. This product can be cast, pumped, or shotcreted. It is self-leveling, flowing easily around any obstruction or anchor system to form a complete monolithic lining without vibration.

Actchem[®] 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.

Actchem[®] 45 Trueflow is a unique refractory castable that can be used in a wide range of applications where higher abrasion resistance and insulation is desired.

Typical Applications

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

Service Temperature 2700°F

Abrasion Loss (ASTM C-704) < 5 cc

Water Required 7.5-8.0%

Material Required 144 lb/ft³

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 ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	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.