

# Actchem, Inc.

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## ACTCHEM<sup>®</sup>-45 TF

### PRODUCT DATA SHEET

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

Actchem<sup>®</sup> 45 Trueflow uses the same **proven unique Actchem binder system**, which permits a wide range of water addition, giving working times of 40 – 60 minutes. Early high strength and low abrasion is achieved at ambient temperatures.

Mixing in a paddle mixer for 7 – 10 minutes produces a product, which is extremely easy to install, even in high ambient temperatures, thereby promoting greater production.

Actchem<sup>®</sup> 45 Trueflow is used in areas where abrasion resistance is required coupled with Insulating Properties.

The maximum operating temperature recommended is 1250° C.

#### Properties

Test Temperature (° C)	B.D. (g/c.c.)	Abrasion (c.c.s.)	C.C.S. (Kg/cm <sup>2</sup> )	M.O.R. (Kg/cm <sup>2</sup> )	P.L.C. (%)
Ambient	2.20 – 2.40	6.00 – 7.00	500 – 700	5 – 10	
110	2.20 – 2.30	3.00 – 4.00	600 – 1000	12 – 18	0.00
350	2.15 – 2.25	3.00 – 4.00	1200 – 1600	12 – 20	-0.10 to -0.30
815	2.10 – 2.15	3.00 – 5.00	1200 – 1600	12 – 20	-0.20 to -0.40

#### Abrasion loss

3.00 to 5.00 c.c.s.

#### Water requirement

9.50 to 10.50 %

#### 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	Autres
48.50	46.50	0.34	0.37	3.16	1.13

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### Typical applications

- Refining Industry : F.C.C.U. Catalyst Transfer Lines  
Riser Lines  
Cyclones
- Steel plants
- Incineration : Fluidized Bed Boilers
- Cement
- Aluminium.

### Actchem<sup>®</sup>45 TF : Water Tolerance Fired to 815° C

Water Content (%)	9	10	11
Bulk Density (g/c.c.)	2.14	2.12	2.17
Cold Crushing Strength (Kg/cm <sup>2</sup> )	1700	1400	1300
Abrasion Loss (c.c.s)	2.80	4.50	4.40
P.L.C. (%)	-0.20	-0.30	-0.30

Thermal Conductivity : @ 815° C : 1.00 W/M.k

Manufacturer warrants only that its product will meet those specifications designated as such herein or in other publications. All other information, including that therein, supplied by manufacturer, or its licensees/agents is considered given in gratis, and manufacturer/agent assumes no obligation or liability for information or advice given or test results. All such advice is taken and accepted at Buyer's sole risk.

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