

# Actchem, Inc.

Sea Meadow House, Blackburne Hwy. - P.O. Box 116  
Road Town, Tortola BVI  
Ph: 225 751 1599- Fax 225 751 8715  
E Mail actchem@aol.com

## ACTCHEM<sup>®</sup>-45 VC

### PRODUCT DATA SHEET

Actchem<sup>®</sup> 45 Vibrocast is a single component, air setting, castable, with an excellent abrasion resistance, which can be easily vibrate cast into location, without the requirement of high intensity, high frequency vibration.

Actchem<sup>®</sup> 45 Vibrocast 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 a minimum of seven minutes produces a product, which is extremely easy to install, thereby promoting greater productivity.

Actchem<sup>®</sup> 45 Vibrocast 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	2.25 – 2.35	5.50 - 6.50	500 - 700	6 – 8	
110 °C	2.20 – 2.30	4.00 – 5.00	900 - 1200	15 - 25	0.00 to - 0.10
350 °C	2.20 – 2.30	4.00 – 5.00	1000 - 1300	12 - 22	-0.10 to - 0.20
815 °C	2.20 – 2.25	4.00 – 5.00	1000 - 1400	12 - 20	-0.10 to - 0.30

#### Abrasion Loss:

5.00 – 5.50 ccs

#### Chemical analysis

#### Water requirement:

5.50 – 6.50 %

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	Other
46.00	49.00	0.34	0.40	2.70	1.56

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### Typical applications :

- Refining industry : F.C.C.U. Catalyst Transfer Lines  
Riser Lines  
External Cyclones
- Incineration industry : Fluidized bed Boilers
- Steel plants
- Cement industry
- Aluminium industry

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

Water Content (%)	5.5 %	6.5 %	7.5 %
Bulk Density (g/c.c.)	2.22	2.15	2.12
Cold Crushing Strength (Kg/cm <sup>2</sup> )	1000	1000	1100
Abrasion Loss (c.c.s)	4.66	5.50	5.50
P.L.C. (%)	-0.20	-0.25	-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. Manufactured under license from C and H Labs

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