

# Actchem, Inc.

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## ACTCHEM<sup>®</sup>-75 VC

### PRODUCT DATA SHEET

Actchem<sup>®</sup> 75 Vibrocast is a single component, air setting, castable, with an exceptional abrasion resistance, which can be easily vibrate cast into location, without the requirement of high intensity, high frequency vibration.

Actchem<sup>®</sup> 75 Vibrocast uses the same, **proven unique Actchem binder system**, which permits a wide range of water addition, giving working times of 40-60 minutes.

Actchem<sup>®</sup> 75 Vibrocast is a low cost version of the original Actchem VC. 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.

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	2.45 – 2.50	4.50 – 5.00	500 - 600	8 - 11	N/A
110 °C	2.45 – 2.50	2.50 – 3.50	600 - 900	15 - 20	0 to -0.10
350 °C	2.45 – 2.50	2.50 – 3.50	900 - 1200	15 - 20	-0.10 to - 0.20
815 °C	2.45 – 2.50	2.50 – 3.50	1200 - 1500	15 - 25	-0.20 to - 0.40

Abrasion Loss :  
3.00 – 3.50 ccs

Water requirement  
7 – 8 %

#### 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	Other
80.00	13.00	1.10	3.00	2.40	0.50

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### Typical applications :

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

### Actchem<sup>®</sup>-75 VC : Water Tolerance Fired to 815° C

Water Content (%)	7.0 %	7.5 %	8.0 %
Bulk Density (g/c.c.)	2.45	2.49	2.40
Cold Crushing Strength (Kg/cm <sup>2</sup> )	1400	1300	1330
Abrasion Loss (c.c.s)	2.50	3.05	2.95
P.L.C. (%)	-0.20	-0.34	-0.30

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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