



ARTECH TECHNOLOGIES INC  
*Superior Abrasion Resistant Materials*

# ACTCHEM<sup>®</sup> 85 RST

## PRODUCT DATA

**Actchem<sup>®</sup> 85 RST** is a single component, air setting castable with exceptional abrasion resistance, cold crushing strength and chemical resistance which can be hand packed or rammed in thin lining applications.

**Actchem<sup>®</sup> 85 RST** has a unique bonding system which allows a wide range of water addition and a rapid set time to yield working times of approximately 45 minutes, and a set time of less than 12 hours. Enhanced workability and non-slumping features achieve greater installation productivity. Excellent adhesion properties make the product ideal for patch repairs.

**Actchem<sup>®</sup> 85 RST** can be gunned with low rebound losses using standard gunning equipment and needle valve water control. Lining thicknesses of up to 5 inches have been successfully achieved.

### Typical Applications

- Refineries (F.C.C.U. catalyst transfer lines, riser lines, cyclones)
- Steel plants
- Incineration (fluidized bed boilers)
- Cement
- Aluminum

**Service Temperature** 2300°F  
**Abrasion Loss (ASTM C-704)** ≤ 3 cc

**Water Required** 4 to 5%  
**Material Required** 185 lb/ft<sup>3</sup>

### Physical Properties

Test Temperature (°F)	Bulk Density (pcf)	Cold Crushing Strength (psi)	Modulus of Rupture (psi)	Permanent Linear Change (%)	Apparent Porosity (%)
230	180 – 188	15,000	3,500	-0.1 to -0.2	7.6
1000	178 – 186	> 20,000	4,000	-0.2 to -0.4	10.6
1500	178 – 186	> 15,000	4,500	-0.2 to -0.4	14.2

### 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	P <sub>2</sub> O <sub>5</sub>	Alkalies
83.4	7.9	1.0	2.3	2.3	1.7	1.4

**Packaging:** 55 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.