ACTCHEM
ARTECH TECHNOLOGIES

ACTCHEM® 45 CASTABLE

PRODUCT DATA SHEET

Actchem®45 is a single component, medium-weight, air setting, castable with exceptional abrasion resistance, cold crushing strength and chemical resistance, which can be hand packed or rammed in thin lining applications. The formulation is based on the original Actchem, using the same proven binder system . The binder system provides flexible water additions without significant loss of erosion, gains early strength and low erosion losses at low temperatures.

Actchem®45 has a unique bonding system allows working times of 60-90 minutes. Enhanced workability and non slumping features achieve greater installation productivity. Excellent adhesion properties make the product ideal for patch repairs.

Actchem®45 can be gunned, with low rebound losses, using standard gunning equipment and needle valve water control, thickness of 5 inches have been successfully achieved.

Actchem®45 can be used in a wide range of applications but typical areas of use include fan housings, burner throats in transfer lines. boilers, chutes and other severe abrasion applications where greater insulation is desired.

Service Temperature	2300 °F	Water Required	6-7%
Abrasion Loss (ASTM C-704)	≤ 6 cc	Material Required	146 lb/ft^3
		Packaging 72	55# bags / pallet

Chemical analysis

AL_2O_3	SiO_2	Fe_2O_3	TiO_2	CaO	Other
45-49	43-47	0.5-1.0	0.9-1.5	3.42	2.53

Physical Properties

Test Temperature (° F)	BULK DENSITY (pcf)	C.C.S. (psi)	M.O.R. (psi)	P.L.C. (%)
Ambient T°	147	5076 – 7252	1450 - 1595	--
230	147	10053 - 10504	2466 - 3626	-0.15
660	142	12053 - 13504	3336 – 3626	-0.10 to -0.20
1500	142	13954 - 17405	3481 - 3626	-0.20 to -0.40