



Alucem – HT2

Aluminosilicate based Cold Curing cement

Alucem-HT2 is an inorganic, water-based, room temperature curing, high temperature resistant ceramic adhesive cement. It is comprised of Alumina and Silica and is designed for fixing of pyrometry tubes for thermocouple assembly.

It undergoes slight expansion during heating around 75 – 100° C, which make it ideal for fixing of high temperature components. After proper curing, this cement imparts high bond strength, thermal shock resistance and high dielectric strength. Alucem-HT2 is free from toxic chemicals/VOCs.

It is available in a micro-fine dry powder, to be mixed with Part II, in the ratio as specified below:

Alucem – HT2 Powder (Part I)	Alucem – HT2 Liquid (Part II)
1 parts by wt.	1 parts by wt.

Mix the cement powder (part I) with liquid (part II) in the above-mentioned ratio to form a thin paste. The paste may be applied on clean and abraded parts. Since Alucem HT2 is quick to dry, consume mixed quantity within 15 minutes of mixing.

Leave the cemented parts to dry at ambient temperature for 24 hours before use. Heating at 65° C in an oven may be implemented to accelerate the setting process. Avoid steam formation during drying. Inadequate drying can lead to short circuit between conductive components potted within the cement.

Technical Properties

Alucem – HT2

Composition[Part I]	:	100% Aluminium Silicate
[Part II]	:	> 40% Sodium Silicate
Color	:	Off white
Bulk Density (Powder)	:	0.6 g/cc
Bulk Density (RTP Cured)	:	1.5 g/cc
Specific Gravity _(liquid)	:	1.4
Coverage (1 mm thick)	:	2.3 kg / m ²
pH	:	11 - 12
Porosity (1000 °C)	:	25 %
Shrinkage (1000 °C)	:	< 0.5 %
Thermal Expansion _(1000 °C)	:	1.4 x 10 ⁻⁶ K ⁻¹
Max. Temperature use	:	1600 °C
Suitable Substrates	:	Glass / ceramics / Ferrous and Non ferrous Metals
Shelf life	:	12 months when stored in unopened, tightly sealed containers in a dry location at ambient Temperature

Kindly note that all values mentioned are based on test pieces and may vary depending on field conditions. The values are not guaranteed by Jyoti Ceramic Ind. in anyway whatsoever and should be treated as indicative only. All values refer to a testing temperature of 20 °C, unless otherwise specified.