

FIS Heat Cure Epoxy

DESCRIPTION:

FIS Heat Cure is a two component, 100% solids, heat curing epoxy designed for high temperature applications. The Heat Cure epoxy exhibits long pot life, excellent glass to ceramic bonding, and a color change from amber to red upon cure.

TYPICAL PROPERTIES:

Number of Components	Two	Viscosity (23° C/20rpm)	mixed 3000-5000 cPs
Mix Ratio	PARTS BY WEIGHT	Operating Temperature	-50 to 200° C
Part A (Resin)	10	Specific Gravity	Part A 1.20
Part B (Hardener)	1		Part B 1.02
Curing Schedule	15 minutes	Glass Transition Temp. (Tg)	cured @ 150° C/1 hour 100° C
80° C		Coefficient of Expansion	Below Tg 54×10^{-6} in/in/°C
Pot Life	4 hours		Above Tg 160×10^{-6} in/in/°C
in a vial or dish		Lap Shear Strength @ 25°C	Al to Al 1500psi
in a syringe	90 minutes	Hardness, Shore D	87
Shelf Life	One year when stored at room temperature.	Moisture Resistance:	MIL SPEC: MIL-1-16923-D
Color	Part A Clear		After 7 days @ 96% RH % Weight increase 0.03%
	Part B Amber		
Index of Refraction	1.560		
Spectral Transmission			
(5000 Å)	>50%		
(7000-9000 Å)	>95%		



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