

LOCTITE®



**LOCTITE®
EA 9824 FST AERO**

**ONE PART
EPOXY POTTING COMPOUND**

Potting Compound



ATTRIBUTES AND FEATURES

- » One-component epoxy chemistry
- » Provides FST-properties
- » Free of halogenated flame retardants
- » Low density 0.7 – 0.75 g/cm³ (46.2 – 46.8 pcf)
- » Cure between 120°C and 180°C (250°F – 350°F)
- » Optimal mechanical performance
- » Resistant to aircraft fluids



APPLICATION & APPLICATION TECHNIQUES

- » Edge sealing
- » Reinforcement of honeycomb
- » Excellent processability:
Designed for manual and automated application



Henkel



Product Properties

LOCTITE® EA 9824 FST AERO

Color	Red-brown		Fluid Absorption	30 days Immersion in Water	0.8 %
Viscosity	Thixotropic paste			30 days at 70°C 85% r.H.	0.7 %
Cure	Heat cure			30 days Immersion in Jetfuel	0.1 %
Extrusion Rate	Initial 0 days	51 g/min / 0.113 lb/min	Shear Strength	Initial -55°C / -67°F	14 MPa / 2047 psi
	Initial 5 days	38 g/min / 0.083 lb/min		Initial: RT	14 MPa / 2036 psi
	Initial 7 days	37 g/min / 0.082 lb/min		Initial: 80°C / 176°F	13 MPa / 1883 psi
DSC	T onset		Shear / Push Out Strength	Initial: -55°C / -67°F	2.5 kN / 564 lbf
	Day 0: initial	127°C / 261°F		Initial: RT	2.5 kN / 559 lbf
	Day 5: Initial	128°C / 262°F		Initial: 80°C / 176°F	1.1 kN / 251 lbf
	Δ H		Flamability (FAR 25.853)	60 s vertical flame length initial	67 K
DMA	Day 0: initial	132 J/g		60 s vertical after flame time, initial	50 K
	Day 5: initial	133 J/g		60 s vertical dripping time, initial	31 K
	T _g		Smoke Density (FAR 25.853) and Toxicity (ABD 00031)	Flaming Mode	179 Ds max
Exothermicity	Day 0 Initial	86°C / 187°F		Gas Toxicity	pass
	T _g wet initial	73°C / 163°F	Shipping Conditions		
	125°C / 257°F	67 K	≤ 0°F ≤ -18°C		
Density	150°C / 302°F	50 K	Shelf Life, Month		
	175°C / 347°F	31 K	9*		
	Initial before cure	0.75 g/cm ³ / 46.8 pcf	* Preliminary until shelf life studies are complete		
Compression Modulus	Initial after cure	0.74 g/cm ³ / 46.2 pcf	The data contained herein are intended as reference only. Please contact Henkel Technical Support Group for assistance and recommendation on specifications for these products.		
	Dry	3125 MPa / 453 ksi			
Compression Strength	Wet	2136 MPa / 310 ksi			
	(2000 h at 70°C 85%)				
	0 days	60 MPa / 8714 psi			
	5 days	65 MPa / 9362 psi			
	Tested at -55°C (-67°F)	73 MPa / 10617 psi			
	Tested at 80°C (176°F)	22 MPa / 3261 psi			
	Ageing dry heat:				
	1000 h at 23°C (73°F) 50 % r.H., tested at RT	55 MPa / 7951 psi			
	Ageing dry heat:				
	1000 h at 80°C (176°F), tested at RT	54 MPa / 7873 psi			
	Ageing wet:				
	2000 h at 70°C (158°F) 85% r.H., tested at RT	46 MPa / 6707 psi			
	Ageing:				
	1000 h Immersion in water, tested at RT	50 MPa / 7264 psi			
	Ageing:				
1000 h Immersion in Skydrol, tested at RT	56 MPa / 8079 psi				
Ageing:					
1000 h Immersion in Jetfuel, tested at RT	55 MPa / 7966 psi				



better quality.
better efficiency.
BETTER TOGETHER.
henkel-adhesives.com/aerospace

NORTH AMERICA
Henkel Corporation

Ray Cornwell
Technical Customer Service
ray.cornwell@henkel.com

EUROPE
Henkel Germany

Anke Schütte
Technical Customer Service
anke.schuette@henkel.com

ASIA-PACIFIC
Henkel China

Wen Jian Xie
Technical Customer Service
wenjian.xie@henkel.com