



# LOCTITE EA 9824 FST AERO

February 2022

## PRODUCT DESCRIPTION

LOCTITE EA 9824 FST AERO provides the following product characteristics:

<b>Technology</b>	Epoxy
<b>Chemical Type</b>	Epoxy
<b>Appearance</b>	Red brown paste
<b>Components</b>	One component - requires no mixing
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>• Flame, Smoke and Toxicity (FST) compliant</li> <li>• Halogen-free flame retardants</li> <li>• Automated dispensing</li> <li>• Low density</li> </ul>
<b>Cure</b>	Heat cure
<b>Application</b>	Structural adhesive, Aviation Assembly Pastes
<b>Typical Applications</b>	Edge sealing, Reinforcement of honeycombs

LOCTITE EA 9824 FST AERO is a one part epoxy potting compound specifically designed for aircraft interiors where strict FST compliance is required. This material is suitable for manual or automated dispense applications.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Extrusion Rate, DIN 65064, g/min:

Day 1	50
Day 5	40

Density, ISO 11839, g/cm<sup>3</sup> 0.75

## TYPICAL CURING PERFORMANCE

### Cure Cycle

50 minutes @ 140°C

The above cure profiles are guideline recommendations. Cure conditions (time and temperature) may vary based on customers' experience and specific application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

## TYPICAL PROPERTIES OF CURED MATERIAL

### Physical Properties

Compression Strength, ISO 604, MPa:

Tested @ 23°C	60
Tested @ 80°C	22
Tested @ -55°C	73
2,000 hours @ 70°C/85% RH	46
1,000 hours @ 80°C, tested @ 23°C	54
Dest. water 1,000 hours @ 23°C	50
Skydrol 1,000 hours @ 23°C	55
Jet fuel 1,000 hours @ 23°C	54

Compression Modulus, ISO 604, GPa:

Dry	3.1
Wet (2,000 hours @ 70°C/85% RH)	2.1

Immersion, % wt. gain:

Dest. water 720 hours @ 23°C	0.77
720 hours @ 70°C/85% RH	0.72
Skydrol 720 hours @ 23°C	1.12
Jet fuel 720 hours @ 23°C	0.1

Push Out Strength, DIN 65064 / ASTM D4562-01, kN:

@ 23°C	2.5
@ 80°C	1.1
@ -55°C	2.5

Shear Strength, EN 2243.1, MPa:

@ 23°C	14
@ 80°C	13
@ -55°C	14

Flammability, FAR25.853:

60 seconds vertical, flame length, mm	133
60 seconds vertical, after flame time, seconds	10.4
60 seconds vertical, dripping time, seconds	0

Smoke Density, FAR25.853, Ds max:

Smoke Density (Flaming mode)	179
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Toxicity, ASTM E662-19, ppm:

HCN	23
CO	375
NO	38
SO	10
HF	0
HCl	0



**GENERAL INFORMATION**

**This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be used with chlorine or other strong oxidizing materials.**

**For safe handling information on this product, consult the Safety Data Sheet (SDS).**

**THAWING**

- Material is ready to use after 24 hours @ 23°C.

**DIRECTION FOR USE:**

- Best suit application method is manual or automated dispensing.

**STORAGE**

Store product in the unopened container in a dry location. Storage information is indicated on the product container labeling.

**Optimal Storage: -18°C (0°F) or below. Storage above this temperature can adversely affect product properties.**

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Henkel Representative.

**PRODUCT SPECIFICATION**

The technical data contained herein are intended as reference only and are not considered specifications for the product. Product specifications are located on the Certificate of Analysis or please contact Henkel representative.

**APPROVAL AND CERTIFICATE**

Please contact Henkel representative for related approval or certificate of this product.

**DATA RANGES**

The data contained herein may be reported as a typical value. Values are based on actual test data and are verified on a periodic basis.

Temperature/Humidity Ranges: 23°C / 50% RH = 23±2°C / 50±5% RH

**Conversions**

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$   
 $\text{kV/mm} \times 25.4 = \text{V/mil}$   
 $\text{mm} / 25.4 = \text{inches}$   
 $\mu\text{m} / 25.4 = \text{mil}$   
 $\text{N} \times 0.225 = \text{lb}$   
 $\text{N/mm} \times 5.71 = \text{lb/in}$   
 $\text{N/mm}^2 \times 145 = \text{psi}$   
 $\text{MPa} \times 145 = \text{psi}$   
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$   
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$   
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$   
 $\text{mPa}\cdot\text{s} = \text{cP}$

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**Reference 2**