



## Process Efficiency | Lightweight | Greater Protection

# LOCTITE EA 9845 LC AERO

### The future of lightning strike protection!

Introducing LOCTITE EA 9845 LC AERO composite surfacing film with lightweight, expanded copper foil for maximum electrical conductivity and protection of aircraft composite parts.

#### Features

- Easier handling than stand alone expanded foil during lay-up, sand and fill operations
- Inventory reduction from two raw materials to one
- Process labour reduction
- Easy repair after lightning strike

#### Benefits

- Maximum protection and electrical conductivity provided by expanded metallic foil produced from solid sheet stock
- Reduced surface preparation = Cost reduction
- High quality cured composite part
- No micro-cracking
- High quality paintable surfaces
- Resistance to high thermal fatigue situations

## LOCTITE EA 9845 LC

LOCTITE EA 9845 LC is currently offered with expanded copper foils with areal weights ranging from 0.015 up to 0.040 lb / ft<sup>2</sup> (73 up to 195 grams / m<sup>2</sup>). With the addition of a surfacing film, positioning and handling the expanded copper foil without distortion is no longer an issue for the shop personnel.

Product Configurations	Cu 0.015 psf (73 g / m <sup>2</sup> )	Cu 0.022 psf (107 g / m <sup>2</sup> )	Cu 0.029 psf (141 g / m <sup>2</sup> )	Cu 0.040 psf (195 g / m <sup>2</sup> )
LOCTITE EA 9845 LC AERO 0.020 psf (97 g / m <sup>2</sup> )	•	•	•	•
LOCTITE EA 9845 LC AERO 0.030 psf (146 g / m <sup>2</sup> )				•

### Components of lightning strike surfacing film



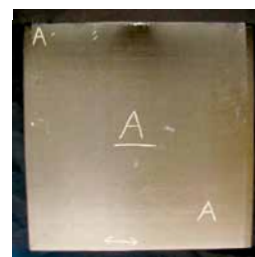
### Lightning strike testing

High current tests were performed on flat, carbon fabric, solid laminate panels and a splice joint to evaluate the ability of LOCTITE EA 9845 LC AERO .020 and 0.040 psf (98 and 195 g / m<sup>2</sup>) to protect composites from the damage of Zone 1A lightning strike attachments.

Each of the test articles show Zone 1A strike point damage contained to less than a 6 inch (15.2 cm) diameter area, with minimal penetration over a two inch diameter area. No punch through or damage was observed on the back side of the panels.



Panel front side



Panel back side -  
no damage observed

### Lightning strike repair

With support from its authorized aerospace distribution network, Henkel delivers composite repair solutions for airline fleet requirements throughout the globe. Henkel offers its MRO customers products that meet major OEM qualifications, in many ready-to-use size configurations.

For more information visit:

[www.henkel.com/aerospace-distributor](http://www.henkel.com/aerospace-distributor)

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