



LORD[®] UltraConductive Film and Coatings
for Lightning Strike Protection

LORD
AskUsHow[™]

LORD® UltraConductive Film and Coatings for Lightning Strike Protection

For more than 85 years, LORD has been creating solutions for the aerospace industry's most demanding challenges. LORD® UltraConductive Film and Coatings for Lightning Strike Protection builds on that legacy by protecting composite structures at half the weight of conventional metal foils—saving hundreds of pounds per aircraft.

Weight Savings

LORD UltraConductive Film and Coatings for Lightning Strike Protection provide a 55% direct weight savings, as compared to using copper expanded foils.

LORD UltraConductive Film and Coatings save additional weight by providing a smooth finish, reducing the use of primer and paint to correct the poor surface finish as seen with expanded copper foil's perforations.

UltraConductive Product Forms

Surfacing Film

- Fits into current manufacturing processes
- Co-cures with composite at 100-177° C (212-350° F)
- Great for standardizing repair on-wing

Spray-On-Tool

- Enables automation
- Improved quality
- Reduced manufacturing and defect costs
- Sprayed onto tool / mold surface
- Co-cures with composite at 100-177° C (212-350° F)

Improved Safety

Those familiar with lightning strike protection systems know that the more dielectric material stacked on your composite, the more likely it is to fail. LORD UltraConductive allows OEMs to not only reduce their material and labor costs, but enables them to build a safer aircraft by eliminating unnecessary layers of dielectric materials to correct for surface imperfections.

Reduced Costs

LORD UltraConductive Film and Coatings reduce costs because it requires fewer surface materials, saving labor and materials.

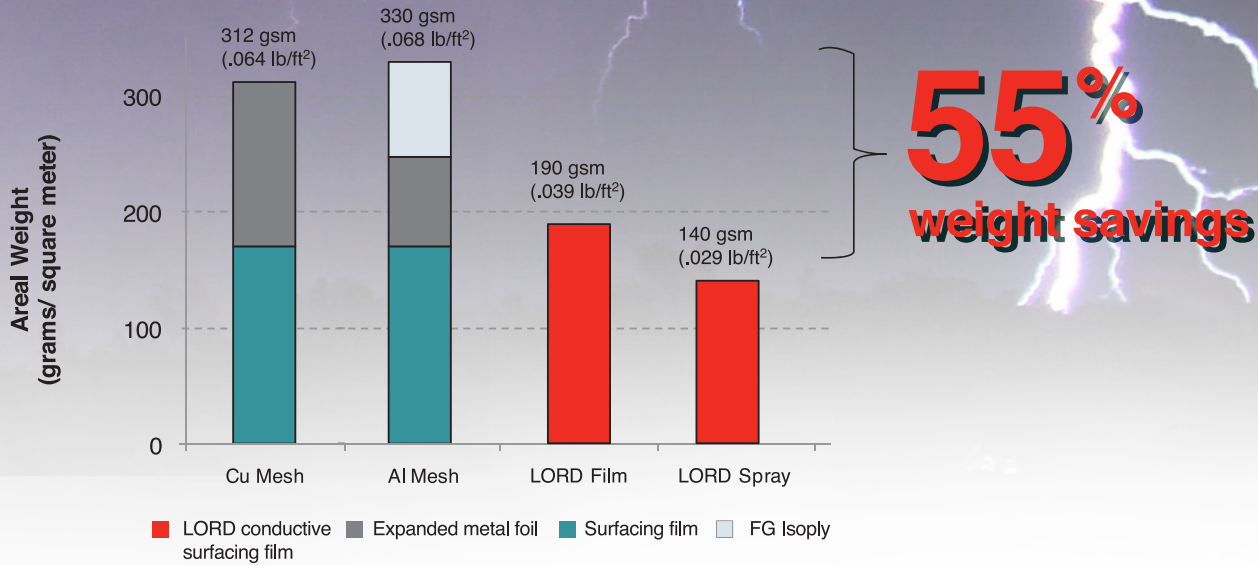
In addition, LORD UltraConductive Coatings allow OEMs to further improve throughput and quality by enabling automation.

Additional Benefits

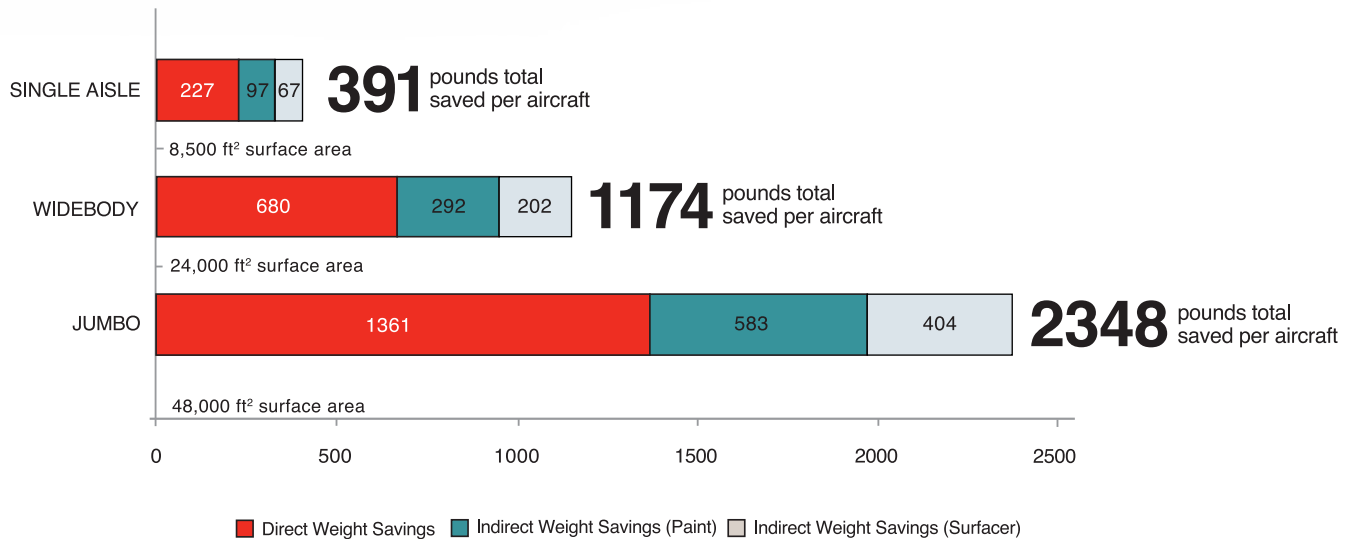
LORD UltraConductive Film and Coatings have heightened corrosion protection. It also lends itself to faster and easier repair which keeps your fleet ready for flight.



Weight Saved by Switching to UltraConductive Film and Coatings



Direct Weight Savings



Assumptions:

Direct Weight Savings: As-measured (.039 lb/ft² LORD film - .064 lb/ft²) x Surface Area x 90% Zone 2A Protection

Indirect Weight Savings Surfacing Primer: As-measured (.0104 lbs/ft² dry film density) x Surface Area x 90% Zone 2A Protection

Indirect Weight Savings Paint: As-measured (.0075 lbs/ft² dry film density x 2 mil saved) x Surface Area x 90% Zone 2A protection

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LORD provides valuable expertise in adhesives and coatings, vibration and motion control, and magnetically responsive technologies. Our people work in collaboration with our customers to help them increase the value of their products. Innovative and responsive in an ever-changing marketplace, we are focused on providing solutions for our customers worldwide ... Ask Us How.

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