

PAD Mechanical

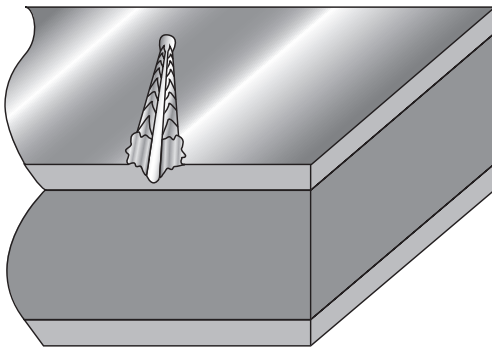
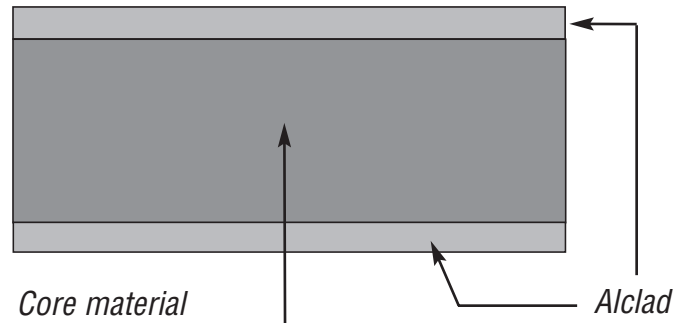
REPAIR & POLISHING OF ALCLAD ALUMINUM SURFACES

"Alclad" – A 99% pure aluminum coating which protects the core material from corrosion. The Alclad thickness of a 2024 aluminum sheet with a gauge of 0.062" or less is approximately 0.003" the equivalent of a single strand of human hair.

"The Core Material" – Is comprised of a variety of elements, giving the aluminum core material its unique strength characteristics.

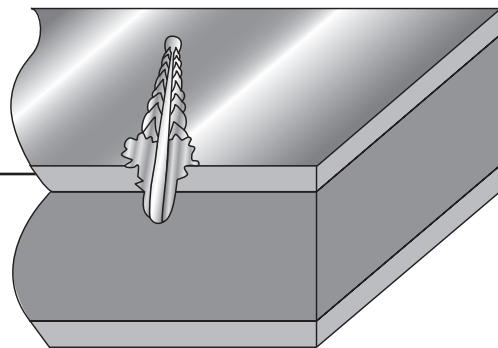
Alcoa has developed a non alclad aluminum material 6013 for the aerospace industry, which has the same non corrosive properties as the 2024 Alclad material found on most aircraft leading edges, trailing edges, and engine nacelle lip skins.

Currently *Bombardier Aerospace* is using aluminum material 6013 in replace of Alclad material 2024, on its CRJ Aircraft.



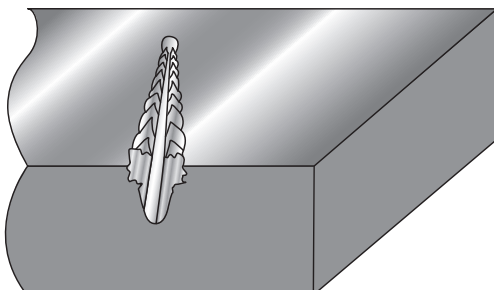
1) APPEARANCE DEFECT, ALCLAD MATERIAL

The alclad coating is scratched, but has not penetrated the core material, repair is necessary for visual appearance and possible material failure.



2) STRUCTURAL DEFECT, ALCLAD MATERIAL

The Alclad coating is penetrated, exposing the core material, repair is necessary to avoid corrosion and material failure.



3) STRUCTURAL DEFECT, NON ALCLAD MATERIAL

The aluminum material is penetrated, repair is necessary to avoid corrosion and material failure.

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