

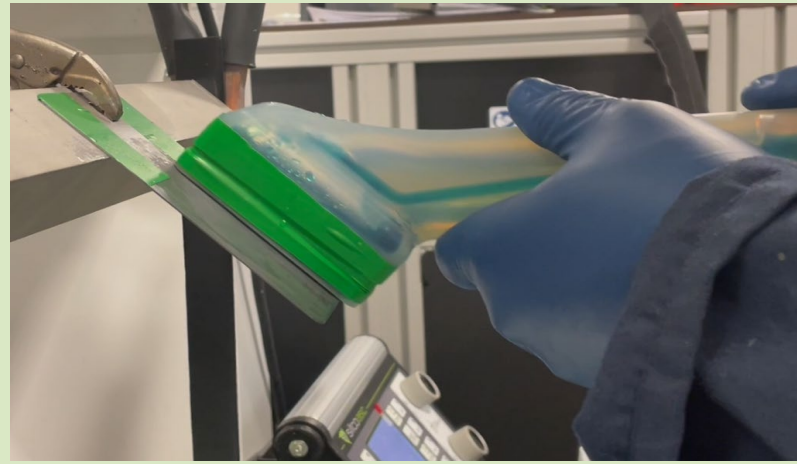


TECHNOLOGY FLASH

DRIPLESS BRUSH ZINC-NICKEL ELECTROPLATING AS A CADMIUM ALTERNATIVE

Benefits:

- Reduction in hazardous waste disposal and ESOH compliance costs associated with brush Cd.
- Elimination of brush Cd across the USAF and DoD upon transition to depot and field maintenance activities.
- Reduction of legal liabilities associated with Cd exposure, environmental compliance, worker safety and health, cradle-to-grave management of previously Cd-plated parts, and international regulations.



Technology Development:

- Portable dripless brush plating system for use in depot, field, and on-aircraft.
- New improved brush Zn-Ni solutions and processes that achieve improved corrosion and hydrogen embrittlement performance over traditional brush plating methods.
- Development and transition of the technology through validation testing, demonstration events, updates to technical data packages, and operator training will offer an improved corrosion protection process, ECD: September 2024
- Technology has been developed by ES3 with DoD SBIR and NDCEE funds.

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