



GOODRICH® DE-ICING CAPABILITIES

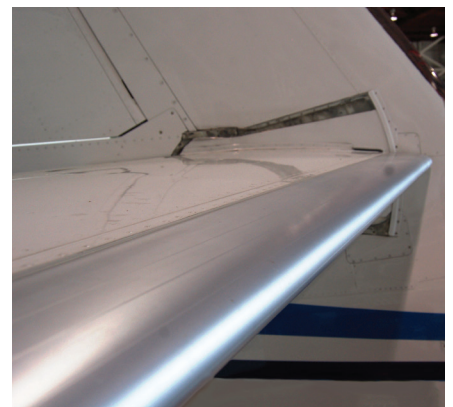
PNEUMATIC AND PROPELLER DE-ICERS AND SYSTEM HARDWARE

Optimized ice shed performance

GOODRICH PNEUMATIC DE-ICERS

Our Goodrich® pneumatic de-icers include features and benefits such as:

- Design that leverages proven expertise
 - Goodrich is the premier OEM de-ice boot provider with content on regional, business, general aviation and military aircraft platforms
- Custom de-icer design and testing for each aircraft to optimize ice shed performance and minimize intercycle ice
- Development of proprietary surface plies formulated for:
 - Resistance to diester type fluids
 - Superior cold crack resistance
 - Maximum protection from ozone and erosion
- Silver pneumatic de-icers are also offered for a premium cosmetic appearance



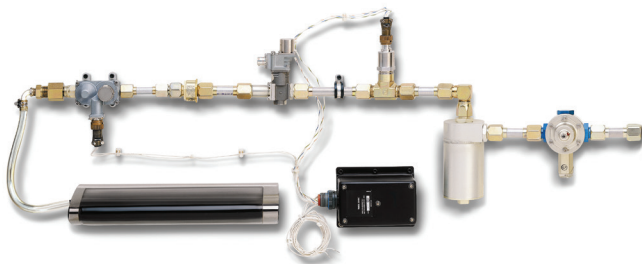
GOODRICH® FASTBOOT® DE-ICER INSTALLATION



Our FASTboot® adhesive system saves you time and improves aircraft readiness with these features and benefits:

- Factory-applied adhesive, providing a smooth and consistent bond
- Reduced installation time versus the time needed to apply standard de-icers
- FASTboot® de-icers can be flown immediately
- De-icers can be inflated two hours after installation
- Reduces hazardous waste through pre-applied adhesive

PNEUMATIC SYSTEM COMPONENTS



As a complete ice protection system supplier, Collins Aerospace provides:

- Controllers
- Pressure regulators
- Ejector flow control valves
- Flow control valves
- Water separators
- Check valves
- Isolation valves
- Pressure switches

PROPELLER DE-ICERS



Features and benefits include:

- More than 70 years of experience in propeller de-icing
- High-quality surface material
- Compound and complex shapes
- Used on aluminum and composite blades
- Available for multiple blade types
- Used in commercial and military applications

**ASK ABOUT DURATHERM® PROP
DE-ICERS FOR YOUR AIRCRAFT**

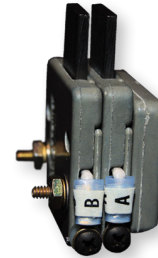
PROPELLER DE-ICE SYSTEM COMPONENTS



Propeller de-icers



Quick disconnect system



Brush block

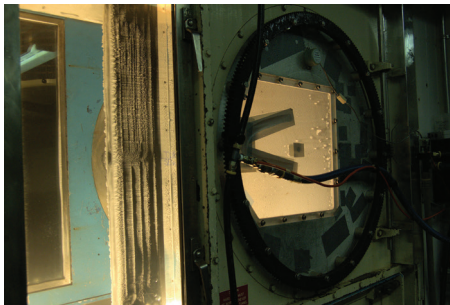


Slip ring

GOODRICH® ICING WIND TUNNEL

Fully automated icing wind tunnel designed to support icing certification to 14 CFR Part 25 Appendix C conditions.

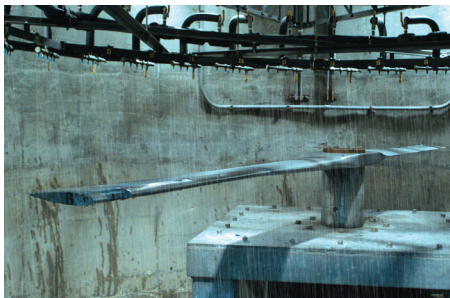
- Available to rent
- Call +1 800 DE-ICERS (800.334.2377) for pricing and availability



GOODRICH® RAIN EROSION FACILITY

Features 1,350 nozzles suspended over the axis of the airfoil. A wide range of conditions and standard holders are available to test samples.

- Available to rent
- Call +1 800 DE-ICERS (800.334.2377) for pricing and availability



De-ice Boot Care Products



Aerospace Protectant (32 fl. oz.) P/N 74-451-237-32
Aerospace Protectant (2 fl. oz.) P/N 74-451-237-2

GOODRICH® AEROSPACE PROTECTANT

- Approved for use on all Goodrich de-icers
- Near 100 percent prevention of UV-caused slow fade
- Resistance to dust, soiling and staining
- Water-based formula is environmentally friendly
- Apply as needed – no surface stripping required



AgeMaster® #1 P/N 74-451-127

AGEMASTER®

- Rubber preservative that protects against weathering, ozone and ultraviolet rays
- Apply six months after new de-icer is installed
- Reapply every 150 flight hours (twice yearly)
- One quart covers approximately 90 sq. ft. (8.3 sq. m.)



Aerospace Cleaner (32 fl. oz.) P/N 74-451-238-32
Aerospace Cleaner (2 fl. oz.) P/N 74-451-238-2

GOODRICH® AEROSPACE CLEANER

- Approved for use on all Goodrich de-icers
- Can be used on all water-safe materials
- Water-based formula is environmentally friendly
- Apply as needed – no surface stripping required
- Great for removing dirt, grime and bugs



ICEX® II Ice Adhesion Inhibitor
(Pint Non-aerosol Spray) P/N ICEX-II-Pump

ICEX® II Ice Adhesion Inhibitor
(Quart Wipe-on) P/N ICEX-II-Quart

ICEX® II

- Ice adhesion inhibitor that enhances de-icer performance
- Apply every 50 flight hours during icing season
- One quart covers approximately 400 sq. ft. (37 sq. m.)



P/N 74-451-AA for black de-icer
P/N 74-451-S-1 for silver de-icer

P/N 74-451-AE (black)
74-451-AP (silver)

REPAIR KITS

- Extend life of de-icer with permanent patch and pinhole repairs
- Kits include all materials needed to complete repairs
- Repair guidelines must be followed



ShineMaster Prep P/N 74-451-179
ShineMaster™ P/N 74-451-178

SHINEMASTER DE-ICER TREATMENT

- Cosmetic coating that provides a high-luster shine
- Clean de-icer with ShineMaster Prep before applying 2-3 light coats
- One pint covers approximately 200 sq. ft. (18.6 sq. m.)
- Reapply as desired

Specifications subject to change without notice.



COLLINS AEROSPACE

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