Storage and Warranty Limits of Ice Shield De-Icers

Storage

The life of an uninstalled pneumatic de-icer may be decreased by improper storage conditions. The following conditions should be maintained for the best service life.

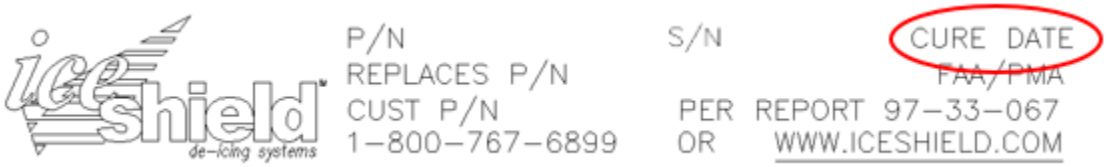
- ***Packaging*** - Each pneumatic de-icer is sealed in an airtight polyethylene bag and boxed prior to shipment. Store the pneumatic de-icer in its original sealed packaging in an area free from sunlight, harmful fumes and excessive dust.
- ***Harmful Substances*** - Do not store petroleum products, solvents, hydraulic fluids or other substances that will damage rubber near de-icers.
- ***Ozone*** - Never store de-icers near electric motors or other sources of ozone.
- ***Temperature*** - Store in a space protected from extreme temperatures. The ideal storage temperature is between 40° and 80°F (5 to 27°C).
- ***Stresses*** - Never store pneumatic de-icers under mechanical stresses that could cause kinking, wrinkling, or creasing. Never stack anything on a rolled-up pneumatic de-icer.
- ***PSA Pressure Sensitive Adhesive De-Icers*** - De-Icers with PSA backing must be handled carefully. PSA parts returned removed from packaging with damage caused to the backing will not be covered under the Ice Shield™ Warranty.
- ***Handling of Elastomeric Products*** - De-Icers are made of a polymer designed with high elongation to allow inflation. De-Icers are packed under tension on a tube to maintain dimensional stability. Parts removed from packaging and kept unrestrained will shrink, causing fit issues. Repackage de-icers after fit check to ensure best aircraft fit.

Use On Condition

- The term "On Condition" means there is no set shelf life on Ice Shield™ de-icers; however, an inspection may be required prior to use.
- We recommend installation prior to the end of a 60-month storage period from the cure date (date of manufacture)
- After the 60-month storage period, the factory warranty begins to expire.
- Cure date located on: Original box and De-icer laser brand

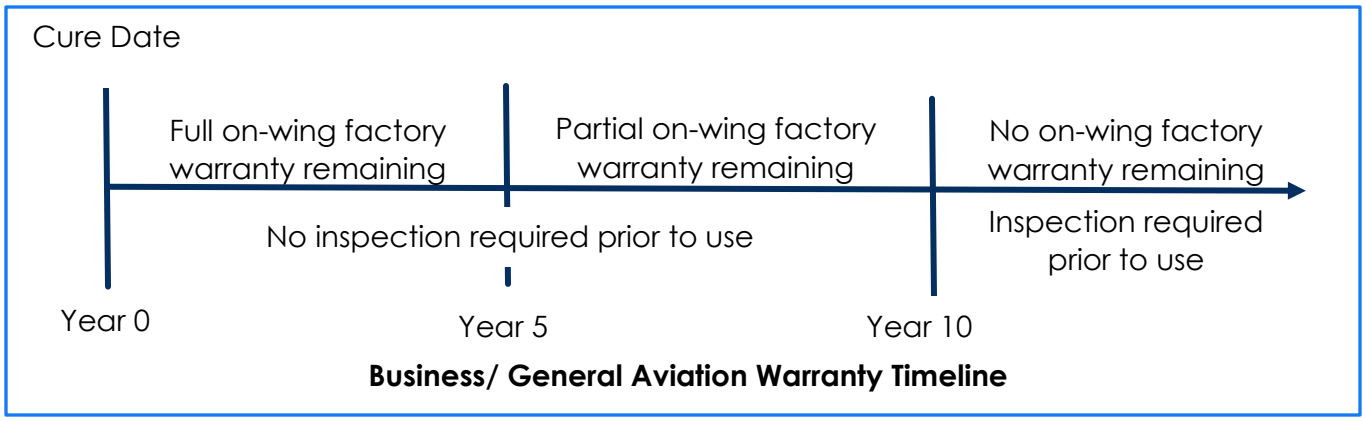
Pneumatic De-Icer Identification

All pertinent information regarding a particular SMR Pneumatic De-Icer is contained in the brand that is located on the air-side surface of the part near the air connector tube. An example of the SMR brand is shown below. Cure Date indicates Date of Manufacture (DOM).



Warranty

- All Ice Shield Pneumatic De-Icers are warranted to be free from material and workmanship defects for five (5) years or 4,000 flight hours from the date of installation, whichever occurs first, but not beyond 120 months from DOM.
- All Ice Shield™ Propeller De-Icers are warranted to be free from material and workmanship defects for eighteen (18) months or 2,000 flight hours from date of installation, whichever occurs first, but not beyond 120 months from DOM.
- All Ice Shield™ Engine Inlet De-Icers are warranted to be free from material and workmanship defects for two (2) years or 3,000 flight hours from date of installation, whichever occurs first, but not beyond 84 months from DOM.
- All Ice Shield™ Hardware products are warranted to be free from material and workmanship defects for twenty-four (24) months from date of sale.



Business/ General Aviation Warranty Timeline

Inspection

- Reference SMR REPORT NO. 97-33-047 Install Manual for Pneumatic De-Icers
- Reference SMR REPORT NO. 97-33-013 Install Manual for Prop De-Icers
- Inspect de-icer carefully for surface damage: cuts, tears, abrasions, scuffs, cracking and/or crazing. Check the bond side and breeze side of de-icer carefully.

  CAUTION: Do not inflate Pressure sensitive adhesive (PSA Boot) de-icers in the uninstalled condition. Only perform inflation checks on PSA Boot parts after installation.

- Pay particular attention to the air connection area.
- Inflate de-icer with regulated air source to correct operating pressure of de-icing system in which de-icer is used. Check inflation time. De-icer should inflate to operating pressure within 6 seconds.
- When de-icer has reached operating pressure, seal off de-icer at air connection. Check de-icer pressure after 60 seconds. Pressure drop should not exceed 3 psi for de-icers with system operating pressure of 14 psi or higher.
- Allow de-icer to deflate naturally with no vacuum applied. Deflation time should not exceed 22 seconds. (Check Aircraft Manual to confirm deflation time, as there are a few deviations to this criterion.) When de-icer is deflated, check for pockets of trapped air in tubes.
- If de-icer does not pass these tests, the de-icer should be scrapped. If de-icer passes all tests, its usability is on condition at the user's discretion.