

Aircraft Specialty Products

Accu-Cool® 342 Instruction Manual

Page 1 of 3

Safety Steps and Procedures To Follow Prior To Applying Accu-Cool® 342:

Always refer to the safety data sheet (SDS), technical data sheet (TDS), and label prior to applying **Accu-Cool® 342** if you have any questions about this product.

Always wear gloves, protective eyewear, and protective clothing when handling **Accu-Cool® 342** to prevent the material from making contact with the skin and eyes.

Accu-Cool® 342 Features and Benefits:

Accu-Cool® 342 is a heat transfer fluid with no flash point that is designed for use on the **Boeing 787 aircraft** and is available in packaging that is approved for use with specialized **Ground Support Equipment (GSE)**.

Accu-Cool® 342 is compatible with most plastics and elastomers. Generally elastomers and other materials that are compatible with uninhibited glycols will work with **Accu-Cool® 342**. The same types of pump packing or mechanical seals used for water may be used with **Accu-Cool® 342**.

Note: Since there is a possibility of incidental food contact with **Accu-Cool® 342**, the **product** is registered with the **NSF** as an **HT1 Heat Transfer Fluid**.

Procedures For Applying Accu-Cool® 342:

Accu-Cool® 342 can be applied on **Boeing 787 aircraft** using specifically designed **Ground Support Equipment (GSE)** which allows recharging and flushing of the coolant lines for filling the reservoirs that hold the heat transfer fluid. A **coolant top off kit** can also be used to top off the **Accu-Cool® 342** in the **787 coolant reservoir** without having to use a **service cart**.

An example of **Ground Support Equipment (GSE)** and a **coolant top off kit** are shown below.

Ground Support Equipment (GSE)



Coolant Top Off Kit



 For more information contact us :
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Aircraft Specialty Products

Accu-Cool® 342 Instruction Manual

Page 2 of 3

Places Where Accu-Cool® 342 Should Be Applied:

Accu-Cool® 342 is designed to be used in the Integrated Cooling System (ICS), Power Electronic Cooling System (PECS), and the Forward Cargo Air Conditioning System (FCAC) and on most plastics and elastomers.

Accu-Cool® 342 Compatibility With Various Materials:

| Material Name | Compatibility With Heat Transfer Fluids |
|--|---|
| Acrylonitrile butadiene rubber (NBR) | Caution: Most compositions of this polymer are not recommended above 40°C |
| Aluminum and alloys | Not recommended above 60°C or if copper or copper alloys are also present |
| Brass with <15% Zinc | Acceptable up to at least 90°C |
| Brass, Chrome Plated | Acceptable up to at least 90°C |
| Brass, Nickel Plated | Acceptable up to at least 90°C |
| Carbon Steel | Acceptable up to at least 90°C |
| Copper | Acceptable up to at least 90°C |
| Copper Alloys <15% Zinc and Lead Free | Acceptable up to at least 90°C |
| Polyoxymethylene (POM) | Not recommended above 30°C |
| Ethylene Propylene Diene Monomer (EPDM) | Acceptable up to at least 75°C |
| Fluoroelastomer (FKM) | Caution: Some compositions of this polymer are not recommended above 40°C |
| Fluorinated Ethylene Propylene (FEP) | Acceptable up to at least 90°C |
| Polyamide (PA) | Caution: Most compositions of this polymer are not recommended above 40°C |
| Polychloroprene (CR) | Caution: Most compositions of this polymer are not recommended above 40°C |
| Polyethylene (PE) | Acceptable up to at least 75°C |
| Polyphenylene Sulfide (PPS) | Acceptable up to at least 60°C |
| Polytetrafluoroethylene (PTFE) | Acceptable up to at least 90°C |
| Polypropylene (PP) | Acceptable up to at least 75°C |
| Polysulfone or Polyphenylsulfone (PSU, PPSU) | Acceptable up to at least 75°C |
| Silicone | Caution: Some compositions of this polymer are not recommended above 40°C |
| Stainless Steel, Solution Treated and Passivated | Acceptable up to at least 90°C |

Aircraft Specialty Products

Accu-Cool® 342 Instruction Manual

Page 3 of 3

Accu-Cool® 342 Product Packaging Part Numbers and Additional Materials To Order:

Accu-Cool® 342

- *Case of 4 each of 1 Gallon (3.8 Liter) Bottles-**011098**
- *5 Gallon (18.9 Liter) Pails-**011097**
- *55 Gallon (208 Liter) Drums-**011370**
- *330 Gallon (1249 Liter) Totes-**011371**
- *Other packaging upon request

| | | | |
|--------------------------|----------------------------------|---------------------|------------|
| Gloves | Protective Eyewear | Protective Clothing | Reservoirs |
| Ground Support Equipment | Pump Packing or Mechanical Seals | | |
| Coolant Top Off Kit | Service Cart | | |



← Accu-Cool® 342 5 Gallon (18.9 Liter) Pail

For application questions regarding the Accu-Cool® 342, contact Zip-Chem® Aviation Products at (1) 408 782 2335 or zipchem@addevmaterials.com.

For more information contact us : zipchem@addevmaterials.com

