

FAA CONFORMING

CORROSION FREE

CHLORIDE FREE

ENVIRONMENTALLY SAFE

CONTAINS INDUSTRIAL
GRADE CORROSION INHIBITORS

LONG-TERM STORABILITY

CAN BE APPLIED UP TO 70
DEGREES BELOW FAHRENHEIT

VERSATILE FOR MOST SPRAY SYSTEMS

NON-TOXIC

NON-FLAMMABLE

[benefits]



ALPINE RF-11 IS INTENDED AS AN AID IN BREAKING THE BOND OF THE ICE/SNOW TO THE SURFACE TO MAKE REMOVAL OF THE ICE/SNOW EASIER. **ALPINE RF-11** IS NOT INTENDED TO BE THE SOLE RESOURCE TO MELT AND REMOVE THE ICE/SNOW. WHEN **ALPINE RF-11** BECOMES SUFFICIENTLY DILUTED WITH WATER, THE RESULTING MIXTURE WILL RE-FREEZE AND RE-APPLICATION IS REQUIRED.

WARNING: THE APPLICATION OF **ALPINE RF-11** MAY CAUSE CERTAIN NON-TEXTURED SURFACES TO BE SLIPPERY. THE INDIVIDUAL MAKING AN APPLICATION OF **ALPINE RF-11** SHALL BE RESPONSIBLE FOR EVALUATING THE SURFACE CONDITION AFTER APPLICATION AND PROVIDING WARNINGS TO OTHERS IF THE SURFACE IS SLIPPERY.

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**YOUR HIGHEST QUALITY
LIQUID ICE-MELT SOLUTION**



ALPINE™
RF-11

**BECAUSE
QUALITY
CREATES
VALUE**





WHY ALPINE RF-11?



NASi has been manufacturing high quality liquid solutions for nearly 65 years. NASi is pleased to introduce

ALPINE RF-11 to the airport runway deicer market. **ALPINE RF-11** meets all FAA requirements of the SAE AMS 1435 B specification for runway de-icing fluids. Our solutions are formulated with pure raw materials. Our reputation is built by providing premium chemicals, high tech distribution, and superior customer and technical support for our customers.

NASi has five liquid chemical manufacturing facilities:

- Marion, OH (Corporate Headquarters)
 - Corydon, IN
 - Red Oak, IA
 - New Hamburg, Ontario, Canada
 - Belle Plaine, Saskatchewan, Canada

ENVIRONMENTAL BENEFITS

ALPINE RF-11 is:

- Non-toxic and non-hazardous to plant and animal life
- Biodegrades readily and complete to carbon dioxide and water
- Very low Biological Oxygen Demand (BOD)

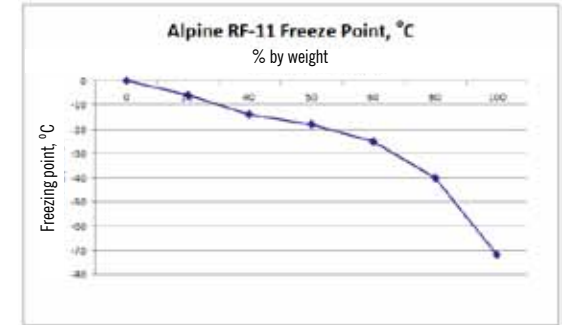

ALPINETM
RF-11

Meets FAA approved specification SAE AMS 1435B

TYPICAL PROPERTIES

Active Ingredients	50%
pH.....	9-11
Specific Gravity.....	1.282
Pounds Per Gallon.....	10.65
Appearance.....	Clear, Blue Liquid
Odor.....	Mild, Characteristic
Water Miscibility.....	Complete
Freezing Point.....	-72°F (-58°C)
BOD.....	(5-Day), g/g 0.25
COD.....	g/g 0.35

THE INFORMATION SET FORTH ON THIS DATA SHEET IS BELIEVED TO BE ACCURATE AS OF THE PRESENT DATE. SINCE THE ACTUAL USE BY OTHERS IS BEYOND OUR CONTROL, IT IS THE PURCHASER'S/USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THE PRODUCT FOR THEIR OWN USE AND PURPOSE. NACHURS ALPINE SOLUTIONS MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED, IMPLIED OR FITNESS FOR A PARTICULAR PURPOSE. NACHURS ALPINE SOLUTIONS NEITHER ASSUMES RESPONSIBILITY REGARDING THE ACCURACY OR SUITABILITY OF SUCH INFORMATION OR PRODUCT FOR APPLICATION TO PURCHASER'S INTENDED USE OR PURPOSE NOR FOR THE CONSEQUENCES OF ITS USE. NO SUGGESTIONS FOR USE ARE INTENDED, AND NOTHING HEREIN SHALL BE CONSTRUED AS A RECOMMENDATION TO INFRINGE ANY EXISTING PATENTS OR TO VIOLATE ANY FEDERAL, STATE OR LOCAL LAWS, RULES OR REGULATIONS.



PRODUCT BENEFITS

- Improved Corrosion Inhibition
- Improved Wetting & Spreading
- Rapid Drying time
- Environmentally Friendly

APPLICATION

Alpine RF-11 is a ready to use liquid form. Supplying in this form makes application by spray trucks convenient and easy.

Anti-icing: Pre-treatment prior to the start of any icing event is the most efficient use of **Alpine RF-11**. The rate of application is approximately 0.5 gallons per 1000 ft².

De-icing: **Alpine RF-11** can be used as an effective deicer when allowed to penetrate the pavement surface to break the bond of ice and snow. The amount of fluid required depends on outside temperatures as well as the thickness of the ice film. A recommended application rate of 1.0 gallon per 1000 ft² for thin ice and 3.0 gallons per 1000 ft² for ice up to an inch thick.