



De/Anti Icing Online Training

NATA's Safety 1st De/Anti Icing module is designed specifically for the general aviation industry to familiarize line service specialists with the responsibility of their job and give an overview of the skills necessary for safe aircraft departures in winter weather.

SAFETY 1ST NATA Deicing / Anti-icing

TYPE I FLUID

Type I fluids are heated and may be delivered to the aircraft surfaces using a deice truck, cart or portable tank with sprayer.

- Thin: Pink to red-orange
- Newtonian - flows off the surface when applied
- Limited anti-icing protection against refreezing
- Used primarily for deicing

NEVER mix fluid types or brands.



Temperature (°F)	Holdover Time (min)
32	10
28	10
24	10
20	10
16	10
12	10
8	10
4	10
0	10
-4	10
-8	10
-12	10
-16	10
-20	10
-24	10
-28	10
-32	10

CLICK HERE TO SEE HOLDOVER TIMES FOR TYPE I FLUID.

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SAFETY 1ST NATA Deicing / Anti-icing

TYPE II FLUID

- White to amber
- Thickened and has oily consistency
- Non-Newtonian - requires a shearing force to flow off surface
- Provides anti-icing protection and used for longer holdover times

NEVER mix fluid types or brands.



Temperature (°F)	Holdover Time (min)
32	15
28	15
24	15
20	15
16	15
12	15
8	15
4	15
0	15
-4	15
-8	15
-12	15
-16	15
-20	15
-24	15
-28	15
-32	15

CLICK HERE TO SEE HOLDOVER TIMES FOR TYPE II FLUID.

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SAFETY 1ST NATA Deicing / Anti-icing

TYPE III FLUID

- Thickened with lower viscosity than Type II or IV
- Yellow
- Non-Newtonian - requires a shearing force to flow off surface
- Can be used for both deicing and anti-icing

NEVER mix fluid types or brands.


Temperature (°F)	Holdover Time (min)
32	10
28	10
24	10
20	10
16	10
12	10
8	10
4	10
0	10
-4	10
-8	10
-12	10
-16	10
-20	10
-24	10
-28	10
-32	10

CLICK HERE TO SEE HOLDOVER TIMES FOR TYPE III FLUID.

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TYPE IV FLUID




- Thick consistency and high in viscosity
- Green
- Non-Newtonian - requires a shearing force to flow off surface
- Best anti-icing protection with longer holdover times

NEVER mix fluid types or brands.

Temperature (°F)	Holdover Time (min)
32	20
28	20
24	20
20	20
16	20
12	20
8	20
4	20
0	20
-4	20
-8	20
-12	20
-16	20
-20	20
-24	20
-28	20
-32	20

CLICK HERE TO SEE HOLDOVER TIMES FOR TYPE IV FLUID.

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De/Anti-Icing Features

- General aviation de/anti-icing best practices and procedures
- Vivid videos and photos to help shape understanding
- Resources such as current Federal Aviation Administration holdover tables
- Quizzes throughout to reinforce major concepts and a final exam to ensure comprehension

