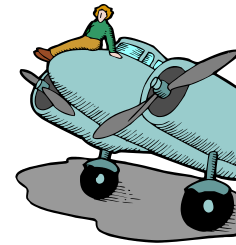


SPECTRUM SAFETY NEWSLETTER

"CARB ICE"

You **WILL** probably develop **Carb Ice** :

- +15°C
- High Relative Humidity
- Spring, Summer and the Fall



You **CAN** develop **Carb Ice** :

- -5°C to +30°C
- *** If Temperatures are above 30°C, you **MAY** develop **Carb Ice**

*** If Temperatures are below -5°C, you probably **WILL NOT** get **Carb Ice**

*** You probably **WILL NOT** develop **Carb Ice** in the Winter

Carb Ice Prior to Take-off:

- Very often, Students and Rental pilots will abort their take-off and return to Spectrum because the aircraft "did not develop full power on the take-off run"
- **The number one cause of partial power on the take-off run, is **CARB ICE****
- When atmospheric conditions on the ground are conducive to the formation of **Carb Ice**, you will probably get **Carb Ice** since you operate at low RPM (below the green arc) while on the ground, and you do not use (and should not use) **Carb Heat** while you are on the ground
- **If atmospheric conditions are conducive to the formation of **Carb Ice**, you should do an additional **Carb Heat** check just prior to departure**
- If you do notice partial power on take-off, you should abort the take-off, exit the runway, do a **Carb Heat** check, and taxi back to the active for a pre take-off checklist (including a **Carb Heat** check, just prior to departure)
- **If you notice partial power again, you should abort the take-off and return to the Ramp**



If you notice a gradual drop in RPM, or a rough running engine –
YOU *PROBABLY HAVE* CARB ICE!

If you apply **Carb Heat** and notice a large drop in RPM, or a rough
running engine – YOU *HAVE* CARB ICE!!

If You Have Carb Ice, you have two options

1. Find a landing site, because if you do not select option 2,
you will have an engine failure
2. Get over your fear of flying an airplane with a rough
running engine and leave the Carb Heat on long enough
to melt the ice

RULES FOR THE USE OF CARB HEAT

- NEVER use partial Carb Heat, the Carb Heat should either be
FULL ON, or **FULL OFF**
- You SHOULD NOT use Carb Heat when you are on the ground
- You SHOULD NOT use Carb Heat continuously when you are
operating at normal power settings (in the green arc)
- You SHOULD USE Carb Heat when you will be operating at
power settings that are below the green arc
- You SHOULD USE Carb Heat when you have Carb Ice
- You SHOULD CHECK Carb Heat every 15 minutes
- You SHOULD CHECK Carb Heat whenever you think you may
have Carb Ice

