



CRYOTECH DEICING TECHNOLOGY SAMPLING PROCEDURE

The following procedure is to be used when sampling Kilfrost DF Plus (88) Type I; Kilfrost DF Plus (Dilute) Type I; Kilfrost DF^{sustain} Type I; QF7, BX36 or E36 Liquid Runway deicer trucks or containers.

Equipment Needed:

- 1 - 250 ml wide mouth polyethylene sample container
- Zone Sampler or Wheaton Bomb Sampler (if top sampling only)
- Disposable gloves
- Paper towels
- Truck seals
- Knock-off hammer for releasing hatch dogs (if applicable, typically only applies to iso-containers)

Procedure:

Sampling may be done from the top of the truck or container as shown in items 1 – 4 below. Sampling may also be done at the bottom of the truck--some trucks are equipped with specific sampling valves. Sampling from either the top or the bottom of the truck is acceptable if the pre-load inspection included verifying that all valves, internal & external, were clean prior to loading the Cryotech product.

Items 1 – 4 for use if sampling from top of container or truck:

1. Samples are to be taken approximately 3 feet below liquid surface.
2. Open container hatch.
3. Flush sampler by lowering sampler to sample depth, allow sampler to fill, and drain sampler back into tank.
4. Collect sample by lowering sampler to proper depth and allow sampler to fill. Remove sampler and empty contents into sample bottle.

The following items 5 – 9 relate to any sample taken, regardless of where sample was pulled from:

5. Repeat sampling until approximately a 250 ml sample has been collected. Allow some head space in bottle.
6. Cap sample bottle, clean bottle exterior and label properly.
7. After collecting sample, hatch must be properly closed, latched and sealed.
8. Bottle must be properly labeled with:
 - Original container number
 - Container number
 - Seal number
 - Date sampled
 - Product name (i.e. Kilfrost DF Plus (88) Type I; Kilfrost DF Plus (Dilute) Type I; Kilfrost DF^{sustain} Type I; QF7, BX36 or E36 Liquid Runway Deicer)
 - Sample location
 - Name of sampler
9. Tighten container cap (careful not to break), seal with tape, place in a 1 gallon zip lock bag and packaging according to DOT requirements and ship by courier service to:

Cryotech Deicing Technology
6103 Orthoway
Fort Madison, IA 52627
ATTN: QC Lab
Phone: 319-372-6012