

# CRYOTECH

## CF7®

*Liquid Commercial Deicer*

### Why CF7?

Cryotech CF7 liquid commercial deicer is a high performing 50% aqueous potassium acetate solution, by weight. CF7 is non-chloride based making it safer for structural steel and reinforcing steel embedded in concrete. CF7 is proven effective in Fixed Anti-icing Spray Technology (FAST) systems for bridges and roadways.

### BENEFITS

- Non-chloride based, low corrosion
- Liquid formulation works fast, on contact
- Easy to handle, no agitation required
- Can be used for anti-icing, deicing, and prewetting solid
- Good tire tracking
- Is not slippery like common deicers
- Complimentary customer training upon request

### PERFORMANCE

- Has low freeze point of -76°F (-60°C)
- Effective to -25°F (-32°C)
- When used as an anti-icer, CF7 prevents bonding of snow/ice to pavement
- When used as a deicer, CF7 breaks snow/ice bonds prior to mechanical removal
- Does not refreeze as fast as common deicers, the residual effect requires fewer applications

### ENVIRONMENT

- Non-persistent, readily biodegrades at low temperatures
- Low BOD and toxicity to fish, mammals, and vegetation
- Does not contain nitrogen or chlorides
- Recognized as “relatively harmless” by the U.S. Fish and Wildlife scale

### APPLICATION

- Prewetting: Apply at spreader outlet at a rate of 1.25 gallons per 100 lbs (130 g/kg) of solid deicer, such as Cryotech NAAC®
- Anti-icing: Commercial = 0.5 gallons/1000ft² (25-50 g/m²)  
Highway = 25-60 gallons/lane mile (25-50 g/m²)
- Deicing: Commercial = 1-3 gallons/1000ft² (50-150 g/m²)  
Highway = 60-180 gallons/lane mile (50-150 g/m²)
- Re-apply when new snow/ice accumulation shows first tendency to bond
- Plow promptly to reduce fluid dilution



## CRYOTECH CF7® PRODUCT SPECIFICATIONS

COMPOSITION	APPEARANCE	DENSITY	VISCOSITY
50% aqueous potassium acetate solution, by weight, plus corrosion inhibitors	Clear, colorless*, mobile liquid, free from matter in suspension	At 68° F (20° C) = 10.68 lbs/gallon (1.28 g/cm³)	At 68°F (20°C) = 10cP maximum At 32°F (0°C) = 20cP maximum
FLASH POINT	FREEZING POINT	MISCIBILITY WITH WATER	TYPICAL pH
Nonflammable	-76° F (-60° C)	Complete	10.5 to 11.5
SPECIFIC GRAVITY	PACKAGING		HANDLING
At 68°F (20°C) = 1.25 - 1.30	55 gallon drums (208 liters) - 4 drum minimum 265 gallon tote (1003 liters) - 1 tote minimum Bulk - 4400 gallons (16,656 liters) minimum * MAY BE DYED BLUE AT CUSTOMER REQUEST		<ul style="list-style-type: none"><li>CF7 should not be stored or plumbed through systems that use galvanized, zinc, or brass components (may be used on or around galvanized bridge and parking deck components, signage, and guardrails)</li><li>Polyethylene or stainless steel containers are preferred, otherwise use carbon or low alloy steel</li><li>Best practices include storing totes and drums in areas protected from weather and exposure to direct sunlight. Containers must be clean and free of rust, surface deposits, and residues</li></ul>

**Refreeze Temperatures**

Solution Concentration (% by weight)	MgCl <sub>2</sub> (°F)	NaCl (°F)	CaCl <sub>2</sub> (°F)	CMA (°F)	KAc (CF7®) (°F)
0	32	32	32	32	32
10	25	28	22	20	18
20	15	18	10	8	5
30	0	5	-10	-15	-25
40	-15	-5	-30	-40	-45
50	-30	0	-50	-55	-60

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### TO ORDER OR FOR PRODUCT INFORMATION CONTACT:

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