



Ace Dry Ice Usage Chart

Use	Duration	Lbs, dry ice
Travel/camping:		
Small cooler	24hrs	5-10lbs
Medium cooler	24hrs	10-20lbs
Large cooler	24hrs	20-40lbs
Malfunctioning equipment:		
• Refrigerator	24hrs	10lbs on top shelf
• Bottom freezer	24hrs	15-25lbs
• Top freezer	24hrs	20-30lbs
• Freezer, side-by-side	24hrs	30-40lbs Spread throughout
• Chest freezer	24hrs	40-50lbs
• Walk-in refrigerator	24hrs	50-100lbs for every 12ft x 12ft area
• Walk-in Freezer	24hrs	150-250lbs for every 12ft x 12ft area
Shipping frozen items:		
• 2lbs	4-12hrs	2-5lbs
• 2lbs	24hrs	10lbs
• 2lbs	48hrs	20lbs
• 5lbs	4-12hrs	3-5lbs
• 5lbs	24hrs	10lbs
• 5lbs	48hrs	20lbs
• 10lbs	4-12hrs	4-8lbs
• 10lbs	24hrs	10lbs
• 10lbs	48hrs	20lbs
• 20lbs	4-12hrs	5-10lbs
• 20lbs	24hrs	10lbs
• 20lbs	48hrs	20lbs
• 50lbs	4-12hrs	10-15lbs
• 50lbs	24hrs	20lbs
• 50lbs	48hrs	30lbs
Dramatic effects:		
Dry ice fog	15mins	5lbs with 1-2gal hot water
Bar ware, pellets	5-7mins	1-2 pellets
Small room (use 2 pots)	15-30lbs	Up to 2-4hr
Large room (use 3-4 pots)	50lbs	Up to 2-4hr
Punch bowl	3-5lbs	Up to 30mins
"Witch's pot"	5-15lbs	Up to 45mins
Pumpkins	3-5lbs	Up to 30mins
Swimming pool (unheated)	50lbs	1-2hrs

Safety First! Use extreme caution when using dry ice:

- Always use gloves or tongs; direct contact will cause a burn.
- Ensure proper ventilation. As dry ice sublimates, pressure can build up.
- Always use insulated protection (newspaper, hot pad, etc.) with dry ice. Direct placement of dry ice can damage a surface.
- For food that's to remain cool, insulate between dry ice and food; otherwise, close contact will freeze the food.

As a general rule, dry ice sublimates at a rate of 5-10lbs every 24hrs.

This chart includes general guidelines. Consider all the following:

- When shipping frozen food, start with the food actually being frozen, not thawed.
- Take into consideration all factors — actual product being shipped, weather temperature, certainty of shipping hours, etc.
- The best shipping container is a zin thick urethane insulated box.
- Wrap the dry ice in newspaper; do not place it directly next to any item.

