



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 frozen food!
- Take into consideration all factors — actual product being shipped, weather temperature, certainty of shipping hours, etc.
- The best shipping container is a 2in thick urethane insulated box.
- Wrap the dry ice in newspaper; do not place it directly next to any item.

