



Product picture shows exemplary CryoSure® LN2 10

DESCRIPTION

CryoSure® LN2 offers precise temperature control for cryogenic temperatures as low as below -150°C for up to 35 days by using advanced insulation materials and proven dry shipper technology. With a three-layer system designed to withstand external influences, CryoSure® LN2 ensures the safety and efficacy of cell & gene therapies throughout the transportation and storage process, minimizing the risk of product loss or compromise.

DIMENSIONS AND WEIGHT

External Dimensions ¹ (l x w x h)		Internal Dimensions		Tolerances	
[mm]	[inch]	[mm]	[inch]	[mm]	[inch]
295 x 295 x 485	11.6 x 11.6 x 19.1	Neck diameter 30 Height 165	Neck diameter 1.2 Height 6.5	± 5	± 0.2

Tare Weight ¹		Payload (Volume)	
[kg]	[lbs]	[L]	
5.5 ± 0.5	12.1 ± 1.1	0.2	

¹including nitrogen and outer packaging

CANISTER DIMENSIONS

Interior ²	Inner Diameter		Height		Payload	
	[mm]	[inch]	[mm]	[inch]	[L / canister]	[L / CryoSure® LN2 1]
canister	23	0.9	120	4.7	0.05	0.1

²each CryoSure® LN2 1 contains 2 canisters

COOLING CONFIGURATION

Material	Weight ³		Tolerances	
	[kg]	[lbs]	[kg]	[lbs]
Liquid Nitrogen	1.1	2.4	0.1	0.2

³nitrogen absorbed by porous material

HOLDING TIME

The CryoSure® LN2 1 is tested on ambient temperature scenario for -150 °C shipments. Liquid nitrogen is absorbed by porous material in vapor phase and is used to stabilize temperature inside the CryoSure® LN2 1.

PERFORMANCE The CryoSure® LN2 1 is qualified in the temperature range below -150 °C

Temperature scenario	Duration [days]	Kelvin-hours ⁴	Average ambient temperature [°C]
ISTA 7D summer (static)	≥ 10	≥ 45180	+30
ISTA 7D summer (dynamic)	≥ 2	≥ 12427	+30.1

⁴Detailed information about the concept of Kelvin-hours on www.kelvinhours.com

For more details, please view the qualification report. Before performing a shipment with the CryoSure® LN2 1 it is suggested that the user performs a validation process with the equipment available and under the conditions available. A test in worst case conditions is recommended. The box provides a very stable and well-designed system solution which has to be adapted on the particular requirements of the user.

For more information please contact support@envirotainer.com.