Cryogenic 40ft
Cryogenic tank container

40ft ISO 45000 Litre 10.5 bar

DESCRIPTION

This technical specification presents the 40ft vacuum insulated cryogenic container system, developed for use as an intermodal transport unit or as a semi trailer alternative where weight limits, whilst retaining the flexibility to operate as a temporary static storage/distribution system.

The containers are intended for long distance transport and distribution of LNG and on land Static Storage of LN2

The cryogenic container is a double walled vacuum shell manufactured in all stainless steel construction which includes the outer jacket.

The construction of the tank is a double shell vacuum insulated.

1. BASIC DATA

Volume: 45,000 litre nominal
M.A.W.P: 10.5 bar
Test Pressure: 14.95 bar
Gross: 36,000 kg During Transport
Tare: 12,750 kg
Dimensions: (l x w x h) 12192 x 2438 x 2591 mm **Ref Drg**

2. TANK

2.1 Inner Vessel:
Water capacity: 45,000 litres.
Material: Austenitic stainless steel grade Tp 304
Working Pressure: 10.5 bar to EN13530-2 2004 and ADR 2019
Design Code: EN13530-2 2004 and ADR 2019
Design Approval Authority: Lloyds Register
Inspection Agency: Lloyds Register

2.2 Outer Jacket:
Material: Austenitic Stainless Steel Grade Tp 304
Design Code: EN 13530-2

2.3 Insulation:
Type: Vacuum + Multilayer Insulation or Superinsulation
Holding Time LNG 80days
Vacuum level @ Delivery: No more than 10 microns warm tank
Vacuum couplings: Hastings DV-6S Thermocouple

2.4 Frame:
Type: Integral reinforced
Material: Carbon Steel
Corner positioning: ISO 40' x 8' x 8'6"

2.5 Fittings:

Flow diagram: In accordance with drawing **K170886 t1**

2.6 Instrumentation:

Liquid level meter: Samson Media 5 Differential Pressure Gaige
Manometer: Indicating tank pressure 1-20 bar

2.7 Pressure Build Up Coil:
Aluminium Star Fin coil capacity 80Nm3/h

2.10 Painting:
Tank and frame: Blasted to surface finish SA 2.5 and 3 Coat System Applied
Symbols: According to ISO, UIC, ADR, RID, IMO, TIR, UN T75.

3. APPROVALS

3.1 International: ADR, ISO, CSC, TIR, TPED, RID, IMO,
UN T75,