

20 feet ISO, Type UN T4 Chemical Tank

Technical Specification for Steel Tank Container

Tank Type: 20' ISO full frame collar tank, Type UN T4 portable,

insulated, steam heated

Quantity: N/A

Frame Dimensions: 20' x 8' x 8'6"

Capacity: 25,000 Litres +/- 2%

M.G.W.: 36,000 kg

Tare (est.): 3,665 kgs

Max Payload: 32,335 kgs

Working Pressure: 1.75 Bar

Test Pressure: 2.65 Bar

 Design Temp:
 -40°C to +130°C

 Vessel Material:
 ASTM A240 304;

Shell: Cold Rolled 2B finish

Dished ends: Hot rolled and polished internally to 1.2 Micron CLA

Shell Thickness: 4.6 mm Nominal

Ends Thickness: 4.71 mm Minimum after forming

Corrosion Allowance 0.2 mm

 Frame Material:
 GB/T 1591-94-Q345D

 Frame to Shell:
 304 stainless steel

 Corner castings:
 ISO 1161 - 8 off

 Vessel Design Code:
 ASME VIII Div 1

Radiography: Shell: ASME Spot Dished ends: ASME Full

Inspection Agency: Lloyds Register

Cargo carried: See dangerous cargo lists for UN Portable T4 tank

Design Approvals: IMDG T4, CFR 49, ADR/RID, AAR 600, CSC, TC, TIR, ISO, UIC, US/UK DOT

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Fittings and Accessories:

Manlid 1 x 500mm - 8-point fastening manlid, low profile with TIR provision

Safety Relief Valve 1 x 2 ½" BSP pressure relief valve without flameproof gauze

Set pressure: 4.4 bar

Safety Relief Valve 2 Not fitted: no provision.

Airline Valve
 1 x 1.5" BSP air inlet valve with 1 1/2" BSP connection, fitted with ca

blank cap and chain. Provision for future fitting of manometer

Top Discharge Provision only, comprising of DN80 weld-in, low profile tank pad, with

blind tapped holes

Fitted with gasket and bolted blank flange

Bottom Outlet DN80 45° 80mm stainless steel high lift foot valve and clamped type

valve fitted with 3" BSP stainless steel screwed outlet connection and blank cap. An emergency closure cable will be connected to the inter

footvalve handle

Spill Boxes
 2 top spill boxes provided containing as follows:-

Centre box containing Manway and PR valve

Rear box containing Airline valve and top outlet provision Drainage pipes fitted to each side of each top box

Walkway 'F' Type walkway, 475 wide aluminium 'Q' grating fitted as follows:-

1 full length walkways fitted with two transverse sections, one adjace

centre spill box, one across the rear of tank

Insulation Tank insulated with 50 mm mineral wool with a density of 55kg/M³ w

possible. Aluminium foil will be fitted between insulation and tank sh

External cladding: 1.8 mm thickness white GRP.

10. Steam Heating 6 longitudinal runs of heating coils, giving a total effective heating ar

7.00 M2 will be fitted.

The working pressure is 4 bar and the testing pressure is 6bar

Inlet and outlet connections are 34" BSP Aluminium caps and chain will be fitted

Thermometer 1 off. Dual scale thermometer, -20° C to 200° C and 0° F to 400°, fitter

end to lower left side

Ladder Aluminim; anti-slip rungs, right-hand rear of tank

Earthing Plate 1 off, welded to bottom frame rear end of tank

Document Holder 1 off, in tubular PVC

Decal Mandatory markings supplied and fitted

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Data Plate 1 off SS consolidated data plate as per code

17. Internal Finish Longitudinal welds: as-welded

Circumferential welds: as-welded but with 300 mm ground flush and polished

to a maximum of 1.2 micron CLA on bottom centre line.

Entire internal surface chemically cleaned and passivated after completion of

all welding and dressing.

18. External Finish Tank Shell: External surface of tank chemically cleaned after completion of all

welding and testing.

Framework: All carbon steel frame parts will be shot blasted to Swedish

standard SA21/2 followed by the application of:-

19. Painting First coat: Hempadur Zinc (15360) 30 micron min DFT

Intermediate: Hempatex Primer (15300) 40 micron min DFT Final coat: Hempatex Hibuild (56430) 50 micron min DFT

TOTAL 120 micron min DFT Colour Customer RAL choice

Gaskets Manlid – Braided PTFE

P/R valve – PTFE Airline Valve – PTFE Bottom outlet – PTFE

Stacking Each container will be approved for 10 high stacking

Documented Approvals The following approvals are required for the design

UN Portable Tank - T4

IMDG - T4 US DOT CFR 49 RID/ADR AAR 600 CSC TC

TIR / Customs

UIC

US/UK-DOT

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