

南通四方罐式储运设备制造有限公司

NANTONG TANK CONTAINER CO., LTD.

Customer: NTC Dated: 10th Jan., 2015

Specification No: NTNT26T11C Rev.0 GA Drawing Ref: 26000/NT001/01/0

Enquiry Ref: NT15E2099 Page 1 of 3

Technical Specification for Steel Tank Container

Tank Type: 20' ISO full frame collar tank, Type UN Portable Tank T11, insulated, steam

heated, top side rails fitted

Quantity: 10 to 20

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

Capacity: 26,000 Litres +0 /- 1%

M.G.W.: 36,000 kg

Tare (est.): 3,770 kg +/- 3%

Max Payload: 32,230 kg

Working Pressure: 4 Bar

Test Pressure: 6 Bar

Max. Allowable Vacuum: 0.41 Bar

Design Temp: $-40^{\circ}\text{C to } +130^{\circ}\text{C}$

Vessel Material: SANS 50028-7 WNr 1.4402/14404 (C<0.03%)

Shell: Cold Rolled 2B finish

Ends: Internally polished to 1.2 Micron CLA

Shell Ends

Min. Calculated Thickness: 4.18 mm 4.40 mm

Corrosion Allowance: 0.20 mm 0.20 mm

Total Thickness: 4.40 mm 4.60 mm after forming

Main Frame Material:GB/T 1591-Q345DFrame to Shell:304 stainless steel

Corner castings: ISO 1161 - 8 off

Vessel Design Code: ASME VIII Div 1

Radiography: Shell: ASME Spot

Ends: ASME Full

Inspection Agency: LR or BV

Cargo carried: See dangerous cargo lists for UN Portable T11 tank

Stacking: Each container is approved for 10 high stacking

Design Approvals: IMDG T11, CFR 49, ADR/RID, CSC, TC, TIR, ISO, US/UK DOT

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Fittings and Accessories: Valves to be from agreed supplier, all flanges will be made by NTtank

1. Manway Assembly 1 x 500mm – 8 points fastening manlid, low profile with TIR provision, no

dipstick holder fitted.

Gasket: PTFE encapsulated EPDM inner

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

Set pressure: 4.4 bar Gasket: PTFE/CNAF

Recessed weld in pad fitted horizontally off top centre line.

3. Relief Valve Provision 1 x 2 ½" BSP relief valve weld in pad (6 x M10 blind tapped holes on a 105mm

PCD) complete with bolted blank flange.

Gasket: PTFE/CNAF

Recessed weld in pad fitted horizontally off top centre line.

4. Airline Connection 1 x 1.5" BSP airline ball valve complete with blanking cap and chain.

Gasket: PTFE

Weld in pad fitted tangentially off top centre line.

5. Top Discharge Provision 1 x 3" low profile weld in pad (6 x M12 blind tapped holes on a 168.3mm PCD)

complete with bolted blank flange.

Gasket: PTFE/CNAF

Recessed weld in pad fitted horizontally on top centre line.

6. Bottom Outlet Assembly 3" 45° footvalve and 3" clamped butterfly valve terminating with 3" BSP spigot

and blank cap.

Gasket: PTFE/CNAF

An emergency closure cable is connected to the footvalve handle

7. **Spill Boxes** 2 top spill boxes provided, containing as follows:-

Centre box contains Manway, PR valve and PRV provision; Rear box contains Airline valve and Top discharge provision.

Drainage pipes fitted to each side of each top box.

8. Outlet housing The outlet valve is contained within a protective housing without lid.

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

1 full length walkway fitted with two transverse sections, one adjacent to the

centre spill box, one across rear of tank

10. Handrail Not fitted, no provision

11. Steam Heating 6 coils steam heating system, actual contact surface 3.24m², effective heating

area 7.12m²

The working pressure is 4 bar and the testing pressure is 6 bar Inlet connection is 1" BSP, outlet connections is 3/4" BSP

Dust caps and chain will be fitted.

12. Insulation Tank insulated with 50 mm rock wool with a density of 60kg/m³ where

possible.

Aluminium foil will be fitted between insulation and tank shell

External cladding: white GRP

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22. Painting

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13. Thermometer 1 off, Dual scale thermometer, -40° C to 160° C, fitted on rear end to lower left

side

14. Ladder Aluminium; anti-slip rungs, right-hand rear of tank

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

16. Document Holder 1 off, in clear tubular PVC

17. Decal Mandatory markings supplied and fitted

18. Data Plate 1 off S/S consolidated data plate as per code

19. Calibration Plate One stainless steel calibration plate marked in cm/litres is tack welded to the

inside neck of the central spill box.

20. Internal Finish Longitudinal welds: as-welded

Circumferential welds: as-welded but with 400 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.

Tank internal surface shall be free of scratches; however, if polishing is

necessary, it shall not exceed 1% of the internal surface.

21. External Finish Tank Shell: External surface of tank cleaned after completion of all welding

and testing.

First coat:

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

Hempadur Zinc (1536C)

standard SA21/2 followed by the application of:-

standard SA272 followed by the application of:-

Intermediate: Hempatex Primer (1530C) 40 micron min DFT Final coat: Hempatex Hibuild (5643C) 50 micron min DFT

TOTAL 120 micron min DFT

Colour Blue RAL 5013

30 micron min DFT

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