

WELFIT ODDY TANK CONTAINER SPECIFICATION NO.:
CPA385/7495/OCI/26/G/T11/1057
IMDG T11 (IMO1) TYPE TANK CONTAINER DATE: 02/10/2001
TYPE WO GENERIC T11/26/SH 8
for transport of PRODUCT CLASSES 3, 6.1, 8 and 9

REVISION 1: 06/02/2002 - REVISION 2 : 18/02/2002

1. DESIGN PARAMETERS

1.1	Nominal Capacity (Tolerance +0.75% ; -0.5%)	26 000 l
1.2	Tare Mass (Tolerance +- 3.3%)	3 650 kg
1.3	General Arrangement Drawing No.:	
1.4	Maximum Gross Mass: Rated	36 000 kg
1.5	Maximum Allowable Working Pressure	4 bar
	Tested to	6 bar
	External Pressure	0.41 bar
1.6	Design Temperature	130°C
1.7	Design Code	ASME VIII DIV.1

2. TANK VESSEL

Rev1	2.1	Tank Barrel Material	Stainless steel DIN 17441 Type 1.4401 (C ₂ 0.03%) / Columbus 316L TCG Minimum thickness 4.8mm Cold rolled 2B finish
Rev1	2.2	Tank End Material	Stainless steel DIN 17441 Type 1.4401 (C ₂ 0.03%) / Columbus 316L TCG Minimum thickness 5.3mm Cold rolled and polished to equivalent 2B finish
	2.3	Vacuum/Circumferential Rings	3 off in stainless steel 304L
	2.4	Radiography	As per ASME VIII UW.52
Rev2	2.5	Interior Finish	Cold rolled 2B finish Longitudinal welds - as welded Circumferential welds left as is and bottom 500mm ground flush and polished to 2B finish Cleaned, degreased, pickled and passivated
	2.6	Exterior Finish	Welds descaled Barrel cleaned, degreased and anti-stress corrosion lacquer applied
	2.7	Steam Heating	8 Longitudinal stainless steel elements Working pressure 6 bar tested to 9 bar Outlet 3/4" BSP connection with captive plastic cap Inlet 1" BSP connection with captive plastic cap

thickness 45mm on barrel
Ceramic wool blanket on ends

2.9 Cladding
2mm White GRP panels on barrel
Stainless steel straps over joints
White GRP preformed panels on ends
All joints and seams sealed
Aluminium, insulated stainless steel rivets and customs rivets

2.10 Calibration
30% Stainless steel captive dipstick mounted to neckring and calibrated in centimeters
Etched stainless steel calibration plate in litres and US gallons fitted adjacent to manlid

3. FRAMEWORK

3.1 Configuration:
Collar tank, with end frames connected to vessel by stainless steel 304L skirts
Rectangular tube lower side longitudinal beams fitted
Square tube top longitudinal beams fitted

3.2 Material
Carbon steel BS 4360 grades 50C and 43C or equivalent

3.3 Dimensions to ISO
Length: 6058mm Width: 2438mm Height: 2591mm

3.4 Corner Castings
To ISO 1161

Rev2 3.5 Access Ladder
Rear right hand side **and 8 off** stainless steel anti slip rungs

3.6 Walkways
1 Longitudinal, 2 transverse, 475mm wide
Marine grade aluminium

3.7 Finish
Shot blasted to grade minimum 2.5 of Swedish standard SIS 05-5900. Blast profile 30 - 40 microns
Hempe Hempadur Zinc primer minimum 50 microns thickness.
Rev1 Hempe Hempatex Hi build in **colour Black RAL 9005**
minimum thickness 65 microns
Combined dry film thickness minimum 115 microns

4. FITTINGS

Rev2 4.1 Manlid
500mm Stainless steel Swift, 8 copper alloy wing nuts **Sweet White Rubber** gasket

4.2 Safety Relief Valves
1 Stainless steel Perolo 2_" pressure (4.4 bar) relief valve with flameproof gauze.
Provision for rupture disc and manometer.

Rev2 4.3 Air Inlet
1_" Stainless steel BTR ball valve with captive blank cap with 1_" BSP terminal connection. **No manometer fitted.**

4.4 Top Discharge Provision
3" Weld in and blank stainless steel flanges
Syphon tube lower retaining bracket but no syphon tube

4.5 Bottom Discharge
3" 45° Stainless steel Perolo foot valve and butterfly valve
3" BSP stainless steel outlet with captive blank cap

4.6 Remote Control
Full-length RHS cable fitted to foot valve

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|------|------------------|--|
| 4.8 | Spill Boxes | 2 Stainless steel boxes fitted around manlid / relief valve and around top discharge / air inlet. 25mm PVC external drainage tubes fitted. |
| 4.9 | Earth Connection | Fitted to lower rear frame crossmember |
| 4.10 | Document box | ø110mm, clear PVC document box fitted. |

5. GENERAL

- 5.1 Manhole, air inlet, safety and discharge valves are all fitted with customs sealing devices.
- 5.2 One set of decals is applied per tank as per code requirements with corporate logo decals applied as per customer requirements.
- 5.3 One set of stainless steel data plates is applied as per code requirements.
- 5.4 All tank containers are manufactured under ISO 9001 Quality Management System.
- 5.5 Each container certified by Lloyds Register.
- 5.6 Each container is supplied with the requirements of type approval, certification and registration and, where applicable, embodying:

ISO 1496/111, ISO 668, ISO 1161, ISO 2716, ISO 3874
 IM101 US DOT (Appraisal only - no certificates supplied)
 UKDETR
 IMDG
 ASME VIII Div 1
 RID / ADR
 AAR 600
 TC
 CSC
 UIC
 Customs Convention

Rev2

Surface mail to be addressed to: TANKSPAN LEASING LIMITED
 SUITE 5, 50 CHURCHILL SQUARE
 KINGS HILL, WEST MALLING
 KENT, ME19 4YU
 ENGLAND

- 1) An original "Cleanliness Certificate for each tank.
- 2) A "Calibration Chart" for each tank.
- 3) The original Lloyd's "Costruction Certificate".
- 4) Copy of Technical File.
- 5) The following original Lloyd's certificates :-
 - a) RID/ADR - TC 6 - Initial Approval Certificate.
 - b) b) MDG 10 - Certificate of Fitness.

6) Copies of the following Lloyd's Type Approvals :-

- a) CSC Type Approval certificate.
- b) MDG 5 Type Approval certificate and product list.
- c) RID/ADR - TC4 Type Approval certificate and product list.
- d) AAR 600 Approval of Portable Tanks.
- e) TIR Customs Convention on the International Transport of Goods.
- f) TC - Transport Canada.
- g) Certificate of UIC Registration.

B) The following documentation is to be placed inside the document box of each tank :-

- a) Copy of the Construction Certificate.
- b) Copy of the cleanliness certificate.

7)

- a) Copy of Technical file.
- b) Tank calculation sheet.
- c) A set of drawings.
- d) Complete set of digital photographs of 1 tank only.

Checked By:

Customer Approval: