Certificate No:
TAS00003FE

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Offshore Tank Container

with type designation(s)
2000L to 4800L Horizontal Chemical Tank Containers

Issued to
Suretank Ltd
Dunleer, Co. Louth, Ireland

is found to comply with
DNV standard DNV-ST-E271 – 2.7-1 Offshore containers, January 2021 (Amended October 2021)
ISO 10855-1:2018 Offshore containers and associated liftings sets – Part 1: Design, manufacture and marking of offshore containers
IMO/MSC Circular 860
International Maritime Dangerous Goods Code (IMDG)
European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR)
Regulations Concerning the International Carriage of Dangerous Goods by Rail (RID)

Application :

UN Portable Offshore Tank, Tank Instruction T11

Type	Max. gross mass (kg)	Max. payload (kg)	Tank cap. (L)	MAWP/test pr. (bar)	Eq. shell thk (mm)
2400L Horizontal Chemical Tank - ST-3870/F	4800	3000	2400	4.0/6.0	5.0
4800L Horizontal Helifuel Tank - ST4814/A	10430	8330	4800	4.0/6.0	5.0
2000L Horizontal Helifuel Tank - ST-4800/B	4800	3100	2000	4.0/6.0	5.12
4800L Horizontal Chemical Tank - ST4810/A	10430	8330	4800	4.0/6.0	5.17
2900L Horizontal Chemical Tank - ST-6080	8000	5900	2900	4.0/6.0	5.0
4600L Horizontal Offshore Tank - ST-6290	10500	8100	4600	4.0/6.0	5.0
2700L horizontal offshore tank - ST-6230	8000	6000	2700	4.0/6.0	5.0
4600L Horizontal Chemical Tank - STA008656	10500	8100	4600	4.0/6.0	5.0

Issued at **Høvik** on **2022-08-10**
This Certificate is valid until **2027-08-09**.
DNV local station: **UK & Ireland CMC & VMC**

for **DNV**

Approval Engineer: **Igor Antonijevic**

Sinisa Sedlan
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

This Type Approval Certificate replaces expired type approval S-7551.
Design approved according to IMDG Code, Edition 2020 Amdt. 40-20.
Pressure vessel code, tank: ASME VIII Div. 1

Type	Max.external dimensions (LxWxH)	Tare mass	Tank diameter (Internal)	Tank material
2000L – ST-3870/F	2150 x 1900 x 2331 mm	1800 kg	1390 mm	EN 10028-7 1.4401
4800L – ST-4814/A	2850 x 1850 x 2337 mm	2100 kg	1600 mm	A240 316; EN 10028-7 1.4401
2000L – ST-4800/B	1912 x 1662 x 2150 mm	1500 kg	1390 mm	A240 316
4800L – ST-4810/A	2850 x 1850 x 2337 mm	2100 kg	1600 mm	A240 316; EN 10028-7 1.4401/1.4404
2900L – ST-6080	2150 x 1850 x 2343 mm	2100 kg	1550 mm	EN 10028-7 1.4401
4600L – ST-6290	2950 x 1850 x 2077 mm	2400 kg	1550 mm	EN 10028-7 1.4401; SANS 50028-7, 1.4402
2700L – ST-6230	2150 x 1850 x 2077 mm	2000 kg	1500 mm	EN 10028-7 1.4401; SANS 50028-7, 1.4402
4600L – STA008656	2950 x 1850 x 2077 mm	2400 kg	1550 mm	EN 10028-7 1.4401/1.4404; SA240; SANS 50028-7, 1.4402

Application/Limitation

IMDG/ADR/RID design approval number N-NV/411/07/08

Type	Setting of relief valve	Metallurgical design temperature for tank	Design temperature for framework	Sling angle from vertical (max.)	Min. shackle bolt diameter	Enhancement factor
2000L – ST-3870/F	4.4 bar	-40 °C to +85 °C	-20 °C	45°	21.6 mm	1.844
4800L – ST-4814/A	4.4 bar	-40 °C to +70 °C	-20 °C	45°	27.7 mm	1.482
2000L – ST-4800/B	4.4 bar	-40 °C to +70 °C	-20 °C	45°	21.6 mm	1.844
4800L – ST-4810/A	4.4 bar	-40 °C to +70 °C	-20 °C	45°	27.7 mm	1.482
2900L – ST-6080	4.4 bar	-40 °C to +70 °C	-20 °C	45°	24.4 mm	1.633
4600L – ST-6290	4.4 bar	-40 °C to +70 °C	-20 °C	45°	27.7 mm	1.479
2700L – ST-6230	4.4 bar	-40 °C to +70 °C	-20 °C	45°	24.9 mm	1.633
4600L – STA008656	4.4 bar	-40 °C to +70 °C	-20 °C	45°	27.7 mm	1.479

Products accepted for carriage:

- Liquids with the following Tank Instructions in the IMDG and ADR/RID code: T1, T2, T3, T4, T6, T7 and T11

DNV surveyor has to witness important production and test events and issue Form no. 71.08a " Certificate for Offshore Container" and Form no. CTT101 “Tank Container Certificate” for each container.

Production strength tests (All point lifting) to be carried out according to DNV 2.7-1 and after agreement with the DNV surveyor.

The certificates are only valid when the containers are fitted with a lifting set certified according to DNV 2.7-1.

Each tank should be subjected to a hydraulic pressure test to the specified test pressure.

Type Approval documentation

Tests carried out

Prototypes tested according to the requirements.

Marking of product

Each container to be marked with:

- Data plates for UN tanks according to IMDG Code Ch. 6.7.2.20. Design approval number according to Application/Limitation above
- Data plates according to DNV / ISO requirements
- External marking according to IMDG / DNV / ISO requirements
- DNV decal for offshore containers
- NV mark to be hard stamped on frame
- Manufacturer's Serial Number to be welded on frame

Periodical assessment

In order to maintain the validity of the type approval certificate, periodical assessments should be carried out according to DNV-SE-0284 at 2 and 3.5 year intervals. Periodical assessments will, when possible, be harmonized with other surveys and audits carried out.

END OF CERTIFICATE