DNV·GL

Certificate No:
TAS00001J0

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Offshore Tank Container

with type designation(s)
6000 Litre Vertical Lined Acid Tank - ST-4200/A
6000L Vertical Lined Acid Tank - STA000605

Issued to
Suretank Ltd
Dunleer, Co. Louth, Ireland

is found to comply with
DNV GL standard DNVGL-ST-E271 – 2.7-1 Offshore containers, August 2017
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 :

Portable Tank Instruction: T14

Type	Max. gross mass (kg)	Max. payload (kg)	Tank cap. (L)	MAWP/test pr. (bar)	Eq. shell thk (mm)
6000L vertical tank - ST-4200/A	**13000**	**9900**	**6000**	**4.0/6.0**	**6.07**
6000L vertical tank - STA000605	**13000**	**9600**	**6000**	**4.0/6.0**	**6.0**

Issued at **Høvik** on **2018-06-21**
This Certificate is valid until **2022-06-30**.
DNV GL local station: **Manchester**

for **DNV GL**

Approval Engineer: **Igor Antonijevic**

Inger-Helene Hals
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.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Job Id: **262.1-006907-4**
Certificate No: **TAS00001J0**

Manufactured by

DNV GL id number 1214516

Product description

Designs approved according to IMDG Code, Edition 2016 Amdt. 38-16.

Max.external dimensions:	2438 x 2438 x 2750 mm
Tare mass:	3100 kg
Pressure vessel code, tank:	ASME VIII Div.1
Tank diameter (Internal):	2190 mm
Tank material:	SA-516 gr. 70
Lining material:	Prime with one coat of zinc epoxy (INTERZINC 52), nominal DFT of 75 µm Finish with one topcoat of two pack Epoxy Isocyanate free cosmetic finish (INTEFINE 691), nominal DFT of 50 µm.

Application/Limitation

IMDG/ADR/RID design approval number[1)]: N-NV/421/12/08
GB-DNV/421/12/08

[1)]only one number shall be used. Suretank Limited is responsible for proper using of the numbers.

Metallurgical design temperature for tank:	-40°C to +55°C
Design temperature for framework:	-20°C
Setting of relief valve:	4.40 bar
Setting of fragible disc:	N/A
Vacuum settings:	-0.21 bar
Min. shackle bolt diameter:	27.7 mm
Lifting slings Max angle of legs from vertical:	45°
Enhancement factor:	1.368

Products accepted for carriage:

- Liquids with the following Tank Instructions in the IMDG and ADR/RID code: T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, T12, T13 and T14.

The goods accepted for carriage should have no adverse effect on any part of the tank and meet applicable tank special provision

DNV GL 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. In addition, for tank containers with GB design approval number certificate MDG10 has to be issue as well.

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

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

Each tank should be subjected to a hydraulic pressure test to the specified test pressure. The lining of each tank is to be subjected to 100% spark testing.

Type Approval documentation

Tests carried out

Prototype 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 GL / EN requirements
- External marking according to IMDG / DNV GL / EN requirements
- DNV GL decal for offshore containers
- mark to be hard stamped on frame
- Manufacturer's Serial Number to be welded on frame

Periodical assessment

For retention of the Type Approval, a DNV GL surveyor shall perform an assessment every 2nd year and before the expiry date of this certificate to verify that the type approval is complied with.

END OF CERTIFICATE