

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Offshore Tank Container**with type designation(s)
2000 usg offshore tank container

Issued to

Mammut Industries
Dubai, United Arab Emirates

is found to comply with

DNV GL standard DNVGL-ST-E271 – 2.7-1 Offshore containers, August 2017**EN 12079 Offshore containers-Design, construction, testing, inspection and marking**
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 T4**

Max. gross mass (kg)	13860
Max. payload (kg)	8860
Tank cap. (L)	7570
MAWP/test pr. (bar)	4.1 / 6.34
Eq. shell thk (mm)	6.07

Issued at **Høvik** on **2018-04-04**This Certificate is valid until **2023-04-03**.for **DNV GL**DNV GL local station: **Abu Dhabi**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.



Product description

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

Max.external dimensions: 2437 x 2400 x 3000 mm
Tare mass: 5000 kg
Pressure vessel code, tank: ASME VIII Div.1
Tank diameter (Internal): 2313 mm
Tank material: SA-516 Gr. 70

Application/Limitation

IMDG/ADR/RID design approval number: N-NV/593/11/17
Metallurgical design temperature for tank: -40°C to +50°C
Design temperature for framework: -20°C
Setting of relief valve: 4.40 bar
Vacuum settings: N/A bar
Min. shackle bolt diameter: 30.2 mm
Lifting slings Max angle of legs from vertical: 45°
Enhancement factor: 1.330

Products accepted for carriage:

- Liquids with the following Tank Instructions in the IMDG code: T1, T2, T3, T4

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. 49.04x/a "Certificate for Tank Container or Portable Tank" for each container.

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.

Type Approval documentation

Job Id: **262.1-027115-1**
Certificate No: **TAS00001AA**

Tests carried out

Prototype HFT-2018-01-955 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