



Certificate No:
TAS00003R4

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Portable Tank

with type designation(s)
10ft-10KL CSC/ISO portable tank container

Issued to

Vasant fabricators Private Limited
Chhapi, Gujarat, India

is found to comply with

International Convention for Safe Containers, 1972 (CSC)
ISO 1496, Part 3: Tank Containers for Liquids, Gases and Pressurized Dry Bulk
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 Tank, Tank Instructions T11

Max. gross mass (kg)	12500
Max. payload (kg)	10150
Tank cap. (L)	10500
MAWP/test pr. (bar)	4.0 / 6.0
Eq. shell thk. (mm)	6.0

Issued at **Høvik** on **2023-01-16**

This Certificate is valid until **2028-01-15** .

DNV local unit: **Mumbai**

for **DNV**

Approval Engineer: **Igor Antonijevic**

Bosman van der Merwe
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.



Form code: TA 281

Revision: 2022-09

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Product description

10ft CSC/ISO portable container.

Max. external dimensions (L x W x H)	2991 x 2438 x 2591 mm
Tare Mass ¹⁾	2350 kg
Tank internal diameter	2310 mm
ISO Freight container designation	1DD
Size code	12
Type code	K2
Tank material	SA-240 gr. 316/304
Pressure Vessel Code	ASME VIII Div. 1

¹⁾Tare mass is to be confirmed by weighing. The sum of the tare mass and the payload shall never exceed the Max. gross mass as stated on the front page of this certificate.

Application/Limitation

Design approved as per IMDG Code, Edition 2020 Amdt. 40-20.

CSC/IMDG/ADR/RID/ design approval reference number	N-NV/643/10/22
Setting of relief valve	4.4 bar
Metallurgical design temperature for tank	-40°C to + 100°C
Allowable stacking load for 1,8g	50800 kg
Racking test load value	NA

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. CTT101 "Tank Container Certificate" for each container. In addition to this freight container certificate has to be issued (form no. CTC301).

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

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 plate according to CSC/ISO requirements including Allowable stacking load of 50800 kg.
- External marking according to CSC, IMDG/ADR/RID requirements
- DNV decal for freight containers
- NV mark to be hard stamped on frame
- Marking in accordance with other applicable codes

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