

December 17, 2014



U.S. Department
of Transportation

East Building, PHH-30
1200 New Jersey Avenue S.E.
Washington, D.C. 20590

**Pipeline and Hazardous
Materials Safety Administration**

DOT-SP 12628
(EIGHTH REVISION)

EXPIRATION DATE: November 30, 2018

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Eurotainer S.A.
Cedex, France

U.S. Agent: Eurotainer U.S. Inc., Humble, TX
2. PURPOSE AND LIMITATIONS:
 - a. This special permit authorizes the manufacture, mark, sale and use of certain DOT Specification 51 and UN T50 steel portable tanks manufactured in accordance with Section VIII, Division 1 of the ASME Code, including the 1999 Addenda which allows a design margin of 3.5. The portable tanks, mounted in ISO frames, are authorized for the transportation in commerce of Division 2.1 and 2.2 materials. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein. The most recent revision supersedes all previous revisions.
 - b. The safety analyses performed in development of this special permit only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 178.274 and 178.276 in that tanks are designed, constructed, certified and stamped in accordance with Section VIII, Division 1 of the ASME Code, including the 1999 ASME Code Addenda which reduces the design margin to 3.5 from 4.0.

5. BASIS: This special permit is based on the application of Eurotainer SA dated November 24, 2014, submitted in accordance with § 107.109.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Division 2.1 and 2.2 materials authorized for DOT Specification 51 portable tanks.	2.1 or 2.2	Various	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packagings prescribed are two models of DOT Specification 51 and one model of UN T50 steel portable tanks that are designed, constructed, certified and stamped in accordance with Section VIII, Division 1 of the ASME Code, including the 1999 ASME Code Addenda which reduces the design margin to 3.5 from 4.0. Each portable tank must be constructed in accordance with AFR drawings numbered C-0-618084/C-0-617939 (Model No. AFR 243/34 BPB-1), C-0-618449/C-0-618150 (Model No. AFR 225/34 BPB-1), Pressure Sciences Incorporated finite element and fatigue analyses and with the specifications and calculations on file with the Office of Hazardous Materials Special Permits and Approvals (OHMSPA) and in compliance with the following provisions:

(1) **Code**: Tanks must comply with DOT Specification 51 in all respects except for the design code and design margin. This special permit authorizes the use of the 1998 edition of Section VIII, Division 1, of the ASME Code along with ASME Code 1999 Addenda as the design code.

(2) **Shell and Head Material**: SA612-N carbon steel or SA240 304 stainless steel.

(3) Tank Design Criteria:

MODEL	AFR 243/34 BPB-1	AFR 225/34 BPB-1	AFR 225/34 BPB-2
Design spec ¹	DOT 51	DOT 51	UN T50
Water Capacity	24,300 Liters 6,419 Gallons	22,500 Liters 5,944 Gallons	22,500 Liters 5,944 Gallons
Outside Diameter	2,420 mm 95.27 inches	2,330 mm 91.73 inches	2,330 mm 91.73 inches
Length	5,870 mm 231.1 inches	5,836 mm 229.8 inches	5,836 mm 229.8 inches
Min. Shell Thickness	9.60 mm 0.378 inches	9.60 mm 0.378 inches	12.00 mm 0.473 inches
Min. Head Thickness	9.60 mm 0.378 inches	9.60 mm 0.378 inches	11.10 mm 0.437 inches
Design Pressure ²	12.6 bar 183 psig	12.6 bar 183 psig	13.8 bar 200.1 psig + full vacuum
Test Pressure	18.0 bar 261 psig	18.0 bar 261 psig	18.0 bar 261 psig
Exposed Surface Area	48 m ² 516.7 ft ²	46 m ² 495.1 ft ²	46 m ³ 495.1 ft ²
Pressure Relief Device Setting	13.8 bar 200 psig	13.8 bar 200 psig	13.8 bar 200 psig
Relief Device Capacity ³	31,328 m ³ /H 1,106,338 SCFH	31,275 m ³ /H 1,104,466 SCFH	Fort Vale 3" 005/2205DK1 PRV with relieving capacity of 30,830 m ³ /hr
Maximum Gross Weight	34,000 kgs 74,957 lbs	34,000 kgs 74,957 lbs	34,000 kgs 74,957 lbs
Tare Weight	6,200 kgs 13,669 lbs	5,700 kgs 12,566 lbs	6,700 kgs 14,771 lbs
Maximum Net Weight	27,800 kgs 61,288 lbs	28,300 kgs 62,391 lbs	27,300 kgs 60,186 lbs

MODEL	AFR 243/34 BPB-1	AFR 225/34 BPB-1	AFR 225/34 BPB-2
Inspection Opening	One - 26.378 in (670 mm) on the rear head	One - 24.409 in (620 mm) on the rear head	One - 19.685" (500 mm) on the rear head
Service Openings ⁴	Two - 2" quick closing safety foot valves with internal excess flow valve + Fort Vale type 888/2523520 L (for liquid) and R (for gas)	Two - 2" quick closing safety foot valves Mecathermic type 140392 with internal excess flow valve + Ball valves Gachot type V25 F4	Two - 2" openings, each within Fort Vale internal excess flow/stop valve operated remotely both mechanically and thermally + Fort Vale external ball valve + bolted flange with ACME connection (3 closures)
Design Specific Gravity	1.15	1.25	1.21
Number of Baffles	3	2	2
Quantity	30	50	25
Owners Serial Numbers	CCRU 504001 through 504030	CCRU 433001 through 443050	EURU 432000 through 432024

NOTES: ¹ New construction of DOT 51 tanks is not authorized after January 1, 2003.

² Design pressure means "Maximum Allowable Working Pressure" as used in the ASME Code.

³ The venting capacity requirement for each material must be determined by the flow formulas contained in the Compressed Gas Association (CGA) Pamphlet S-1.2.

⁴ Each bottom outlet valve must be provided with a shear section that meets the requirements of § 178.337-12.

(4) **Pressure Relief Devices:** One (1) spring loaded pressure relief valve outboard of and in series with one (1) rupture disc.

(5) **G-Loadings:** Vertical down - 2; Vertical up - 2
Longitudinal - 2; Transverse - 2

(6) **Maximum Gross Weight:** 34,000 kgs (74,957 lbs)

(7) **Design Temperature Range:** -20°C to 55°C (-40°F to 131°F)

(8) **Corrosion Allowance:** 0.0

(9) **Insulation:** Sunshield

b. TESTING -

(1) Hydrostatic test certificates for each tank must be maintained by the owner and made available upon request to any representative of the DOT.

(2) Each portable tank must be retested and inspected as specified for DOT Specification 51 portable tanks in § 180.605.

c. OPERATIONAL CONTROLS -

(1) The pressure produced by the lading and any gas padding at 46°C (115°F) may not exceed the design pressure of the portable tank.

(2) The tank must be filled in accordance with the provisions of § 173.315.

(3) Each tank must be visually inspected prior to shipment. Any unsafe condition must be corrected prior to the tank's use.

8. SPECIAL PROVISIONS:

a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this special permit for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this special permit.

- b. A person who is not a holder of this special permit, but receives a package covered by this special permit, may reoffer it for transportation provided no modifications or changes are made to the package and it is offered for transportation in conformance with this special permit and the HMR.
 - c. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.
 - d. Each packaging manufactured under the authority of this special permit must be either (1) marked with the name of the manufacturer and location (city and state) of the facility at which it is manufactured or (2) marked with a registration symbol designated by the Office of Hazardous Materials Special Permits and Approvals for a specific manufacturing facility.
 - e. MARKING -
 - (1) Each portable tank must be plainly marked on both sides near the middle, in letters and numerals at least two inches high on a contrasting background, "DOT-SP 12628."
 - (2) Each pressure relief valve must be marked with its set pressure and flow rate in SCFH.
 - f. A test report documenting a satisfactory ISO prototype test for each tank design must be on file with OHMSPA prior to the first shipment.
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, and cargo vessel.
10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel or motor vehicle used to transport packages covered by this special permit.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)- 'The Hazardous Materials Safety and Security Reauthorization Act of 2005' (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term "special permit" to "special permit" and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR 171.15 - Immediate notice of certain hazardous materials

incidents, and 171.16 - Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Materials Safety Administration, Department of Transportation, Washington, D.C. 20590. Attention: PHH-31.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: PTO/MN