

September 13, 2007



U.S. Department
of Transportation

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

**Pipeline and Hazardous
Materials Safety Administration**

DOT-SP 12289
(SIXTH REVISION)

EXPIRATION DATE: January 31, 2011

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Eurotainer S.A., Puteaux Cedex, France
(U.S. Agent: Eurotainer U.S. Inc., Houston, TX)
2. PURPOSE AND LIMITATIONS:
 - a. This special permit authorizes the use of certain DOT Specification 51 steel portable tanks manufactured in accordance with Section VIII, Division 2 of the ASME Code instead of Division 1. 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.
 - b. The safety analyses performed in development of this special permit only considered the hazards and risks associated with transportation in commerce.
 - c. Party status will not be granted to this special permit.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 178.245-1(a) in that tanks are designed, constructed, certified and stamped in accordance with Section VIII, Division 2 of the ASME Code, except as specified herein.
5. BASIS: This special permit is based on the application of Eurotainer, SA dated February 2, 2007, submitted in accordance with § 107.109 and additional information of September 12, 2007.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Material Description	Hazard Class/ Division	Identi- fication Number
Division 2.1 and 2.2 materials authorized in DOT Specification 51 portable tanks	2.1 2.2	Various

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packagings are DOT Specification 51 steel portable tanks that are designed, constructed, certified and stamped in accordance with Section VIII, Division 2 of the ASME Code, including the ASME "U2" stamp. Each portable tank must be constructed in accordance with AFR drawings numbered C-0-615845/C-0-615807 (Model No. AFR 225/34 APB-1), C-0-615846/ C-0-615824 (Model No. AFR 225/34 APB-2), C-0-615890/ C-0-615880 (Model No. AFR 201/34 APB-1) 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. This special permit authorizes the use of Section VIII, Division 2, of the ASME Code along with ASME Code Case 2279 as the design code.

(2) **Shell and Head Material:** SA612-N carbon steel

(3) **Tank Design Criteria:**

MODEL	AFR 225/34 APB-1	AFR 225/34 APB-2	AFR 201/34 APB-1
Water Capacity	22,500 Liters 5,955 Gallons	22,500 Liters 5,955 Gallons	20,100 Liters 5,310 Gallons
Outside Diameter	2,330 mm 91.73 inches	2,330 mm 91.73 inches	2,200 mm 86.61 inches
Length	5,900 mm 232.28 inches	5,850 mm 230.30 inches	5,930 mm 233.46 inches
Min. Shell Thickness	16 mm 0.63 inch	12.3 mm 0.48 inch	18.9 mm 0.744 inch

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Min. Head Thickness	16 mm 0.63 inch	12.3 mm 0.48 inch	18.9 mm 0.744 inch
Design Pressure ¹	25.0 bar 363 psig	19.1 bar 277 psig	31.3 bar 454 psig
Test Pressure	35.8 bar 519 psig	27.3 bar 396 psig	44.7 bar 649 psig
Exposed Surface Area	46.19 m ² 497 ft ²	45.8 m ² 493 ft ²	43.6 m ² 469 ft ²
Pressure Relief Device Setting	27.5 bar 399 psig	21 bar 305 psig	34.4 bar 499 psig
Relief Device Capacity ²	54,598 m ³ /H 1,928,096 SCFH	42,143 m ³ /H 1,488,069 SCFH	61,281 m ³ /H 2,164,188 SCFH
Tare Weight	8,199 kgs 18,075 lbs	6,750 kgs 14,881 lbs	9,000 kgs 19,841 lbs
Maximum Net Weight	25,801 kgs 56,881 lbs	27,250 kgs 60,075 lbs	25,000 kgs 55,115 lbs

NOTES: ¹ Design pressure means "Maximum Allowable Working Pressure" as used in the ASME Code.

² 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) **Openings:** One (1) - 610 mm (24 inch) diameter manway; one (1) - 50.8 mm (2 inch) diameter liquid phase opening; and one (1) - 50.8 mm (2 inch) diameter gas phase opening on the end; and one (1) - 76.2 mm (3 inch) diameter pressure relief device opening on the top.

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

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

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- (6) **G-Loadings:** Vertical down - 2; Vertical up - 2
Longitudinal - 2; Transverse - 2
- (7) **Maximum Gross Weight:** 34,000 kgs (74,956 lbs)
- (8) **Design Temperature Range:** -20°C to 55°C (-40°F to 131°F)
- (9) **Corrosion Allowance:** 0.0
- (10) **Design Specific Gravity:** 1.2
- (11) **Baffles:** 2
- (12) **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 § 173.32(e).

c. OPERATIONAL CONTROLS -

- (1) The pressure produced by the lading and any gas padding at 50⁰C may not exceed the design pressure of the portable tank.
- (2) The tank must be filled by weight 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. 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 modification or change is made to the package or its contents and it is offered for transportation in conformance with this special permit and the HMR.

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- b. A person who is not a holder of this special permit, but leases a packaging covered by this special permit, may offer it for transportation provided no modification or change is made to the packaging 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. 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 12289." Additionally, each portable tank must be marked "Case 2279" on the name plate and on the Manufacturer's Data Report.
 - (2) Each pressure relief valve must be marked with its set pressure and flow rate in SCFH.
- e. A test report documenting a satisfactory ISO prototype test for each tank design must be on file with OHMSPA prior to the first shipment.
- f. Transportation of Division 2.1 (flammable gases) materials are not authorized aboard cargo vessel unless specifically authorized in the Hazardous Materials Table (§ 172.101).
- g. New construction of UN Portable Tanks manufactured in accordance with Section VIII, Division 2, of the ASME code, instead of Division 1 after February 28, 2005 is not authorized.
- h. Packagings permanently marked 'DOT-E 12289', prior to October 1, 2007 may continue to be used under this special permit for the remaining service life of the packaging or until the special permit is no longer valid. Packagings marked on or after October 1, 2007 must be marked 'DOT-SP 12289'.
- i. Shipping papers displaying 'DOT-E 12289' may continue to be used until October 1, 2007, provided the special permit remains valid.

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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 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, 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 'exemption' 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 Theodore L. Willke
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: PTolson/kah