



U.S. Department  
of Transportation

**Pipeline and Hazardous  
Materials Safety  
Administration**

**August 01, 2022**

1200 New Jersey Avenue, SE  
Washington, DC 20590

DOT-SP 20357  
(SECOND REVISION)

**EXPIRATION DATE: 2023-09-30**

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: Jingmen Hongtu Special Aircraft Manufacturing Co., Ltd  
Jingmen, China

US AGENT: Compliance Management, Ltd. Liability Co.  
Clermont, FL

2. PURPOSE AND LIMITATION:

a. This special permit authorizes the manufacture, mark, sale, and use of certain UN portable tanks conforming to the requirements of § 172.102(c)(7) PORTABLE TANK CODE T50, which are designed and constructed in accordance with Section VIII, Division 2 of the ASME Code. The portable tanks, mounted in ISO frames, are authorized for the transportation in commerce of Division 2.1 and 2.2 hazardous 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. The safety analyses did not consider the hazards and risks associated with consumer use, use as a component of a transport vehicle or other device, or other uses not associated with transportation in commerce.

c. In accordance with 49 CFR 107.107(a), party status may not be granted to a manufacturing special permit. These packagings may be used in accordance with 49 CFR 173.22a.

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 178.274(b) and 178.276(b)(1) in that the portable tanks are designed, constructed, certified, and stamped in accordance with Section VIII, Division 2 of the ASME Code; and § 178.274(b) in that the design temperature range is -40 °C to 55 °C (-40 °F to 131 °F).
5. BASIS: This special permit is based on the application of Jingmen Hongtu Special Aircraft Manufacturing Co., Ltd, dated January 31, 2022, submitted in accordance with § 107.105 and the public proceeding thereon.
6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Material Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Division 2.1 and 2.2 materials authorized for UN portable tanks (see PORTABLE TANK CODE T50)	2.1 or 2.2	As appropriate	N/A
Ammonia, anhydrous	2.3	UN1005	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING: Packagings prescribed are UN portable tanks conforming to the requirements of § 172.102(c)(7) PORTABLE TANK CODE T50, are designed, constructed, certified, and stamped with the ASME “U2” stamp in accordance with Section VIII Division 2 of the ASME Code, including all applicable ASME Code Cases. Each portable tank must be constructed in accordance with the manufacturer’s drawings (AGX1512-0210-00 Rev.3, AGX1512-0000-00 Rev.2), specifications, and calculations on file with the Office of Hazardous Materials Safety (OHMS) and with the following requirements:

- (1) Code: Portable tanks must conform to all the requirements for UN portable tanks in §§ 178.274 and 178.276 and with PORTABLE TANK CODE T50 in all respects except for the design code and design temperature range. This special permit authorizes the use of Section VIII, Division 2 of the ASME Code as the design code.
- (2) Material: SA612M Normalized Steel as permitted by Section VIII Division 2 of the ASME Code or by any Code Case.
- (3) Tank capacity and pressure:

Design pressure (see Notes 1)	1.8 MPa (261 psig)
Water Capacity	6,525 USWG (24,700 liters)

Note 1: The design pressure means the “Maximum Allowable Working Pressure” as used in the ASME Code.

- (4) Maximum Gross Weight: 17,540 kg (38,670 lbs.).
- (5) Design Temperature Range: -40/55 °C (-40/131 °F).
- (6) G-Loadings: Vertical down – 2; Vertical up – 1; Longitudinal – 2; Transverse – 1.
- (7) Insulation: None. However, each portable tank must be provided with a sunshield.
- (8) Baffles: Optional.
- (9) Corrosion Allowance: 0.0.
- (10) NDE: Welded joints must be 100% tested by a non-destructive method authorized by the ASME Code.
- (11) Initial Test Pressure: 1.43 X MAWP.
- (12) Periodic Test Pressure: 1.3 x MAWP.

b. TESTING:

- (1) Hydrostatic test certificates for each portable tank must be maintained by the owner and made available upon request to any representative of the DOT.
- (2) A test report documenting a satisfactory ISO prototype test for each portable tank design must be on file with OHMS prior to the first shipment.
- (3) Each portable tank must be inspected and tested as specified in § 180.605(c)(1) for UN portable tanks.

c. OPERATIONAL CONTROLS:

- (1) The pressure produced by the lading and any gas padding at 55 °C (131 °F) may not exceed the design pressure of the portable tank.
- (2) Each portable tank must be filled by weight.

- (3) Each portable tank must be visually inspected prior to shipment to ensure that it has not been damaged during loading.

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 modification or change is 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 Safety for a specific manufacturing facility.

e. A current copy of this special permit must be maintained at each facility where the package is manufactured under this special permit. It must be made available to any DOT representative upon request.

f. In addition to markings specified in § 178.274(i), 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, special permit number "DOT-SP 20357". Additionally, each portable tank must have applicable code cases marked on the ASME name plate and on the Manufacturer's Data Report.

g. Transportation of Division 2.1 hazardous materials (flammable gases) are not authorized aboard cargo vessel unless specifically authorized in the Hazardous Materials Table (§ 172.101).

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.

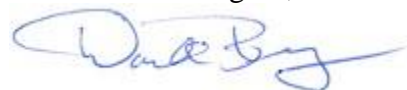
Each “Hazmat employee”, as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

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 “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 William Schoonover  
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, East Building PHH-13, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at <https://www.phmsa.dot.gov/approvals-and-permits/hazmat/special-permits-search>. Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: vc/NICKS