



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety
Administration**

March 23, 2026

1200 New Jersey Avenue, SE
Washington, DC 20590

DOT-SP 22043

EXPIRATION DATE: 2028-02-29

(FOR RENEWAL, SEE 49 CFR 107.109)

1. **GRANTEE:** Fibro Plasticchem (India) Private Limited
Hightstown, NJ
2. **PURPOSE AND LIMITATIONS:**
 - a. This special permit authorizes the manufacture, mark, sale and use of non-DOT specification glass fiber reinforced plastic (GFRP) cargo tanks conforming to all regulations applicable to a DOT 407 or DOT 412 cargo tank motor vehicle, except as specified herein, for the transportation in commerce of the hazardous materials listed in paragraph 6 below. 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 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 § 107.503(b) and 107.503(c) in that the manufacturer does not hold an ASME “U” or National Board “R” stamp; §172.203(a), 172.102(c)(3), 173.241(b), 173.242(b), 173.243(b), 178.347-1(a), 178.348-1(a), 178.345-1(a) in that non-DOT specification packaging is authorized.

Tracking Number: 2025064367

5. **BASIS:** This special permit is based on the application of Fibro Plasticochem (India) Private Limited dated June 4, 2025, 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 |
| Class 8 material authorized to be transported in a lined DOT 407/412 cargo tank* | 8 | As appropriate | I, II, or III |

7. **SAFETY CONTROL MEASURES:**

a. **PACKAGING:** Prescribed packaging is a non-DOT specification glass fiber reinforced plastic (GFRP) cargo tank conforming to all regulations applicable to a DOT Specification 407/412 cargo tank, except as specified herein.

(1) Each tank must have a design pressure of 35 psig, a test pressure of 53 psig, a minimum wall thickness of 31.87mm (1.25 inches), an inner diameter of 70 inches, and a minimum design margin of 4.0:1.

(2) Each tank must be designed and constructed in accordance with Fibro Plasticochem drawing “MTI/FP/GA dated 01/2024”, Revision 2 dated 02/15/2026, with a maximum tank capacity of either 4,000 US water gallons, 4,500 US water gallons, or 5,000 US water gallons. The corresponding calculations and specifications for the glass fiber reinforced plastic (GFRP) cargo tank(s) must be on file with the Office of Hazardous Materials Safety (OHMS).

(3) Each tank must be in compliance with §§ 173.241, 173.242, or 173.243, as prescribed in the Hazardous Materials Table (§ 172.101), except that Special Provisions, B15 and B23 are waived.

(4) In addition, the tank must meet all requirements for a DOT-407 and DOT-412 specification cargo tank motor vehicle (§§ 178.347 and 178.348), except as follows:

(i) §§ 178.345-1, 178.347-1 and 178.348-1: references to ASME Code requirements do not apply.

- (ii) §§ 178.345-2 and 3; 178.347-2; and 178.348-2: Type of material, wall thickness and lining requirements do not apply. Tank shell, heads, manway, inner barrier and fittings must be constructed in accordance with the data on file with the OHMS.
- (iii) § 178.345-4: Joint weld requirements do not apply.
- (iv) § 178.345-7: Circumferential reinforcement requirements do not apply.
- (v) § 178.345-10(c): Pressure relief provisions for location do not apply.
- (vi) § 178.345-14: Specification plate and name plate requirements must be appropriately modified to reflect compliance with terms of this special permit. For example:

DOT NAME PLATE
CARGO TANK MANUFACTURED BY
FIBRO PLASTICHEM
 Kharial, Dankuni, West Bengal INDIA
 DOT Reg. # CT-XXXX

CARGO TANK MFR. SERIAL #: _____
SPECIFICATION: DOT 407/412 SP-22043
ORIGINAL TEST DATE: _____
CARGO TANK MAWP: 35 (psig)
CARGO TANK TEST PRESSURE: 53 (psig)
CARGO TANK DESIGN TEMP. RANGE: AMBIENT
NOMINAL WATER CAPACITY: _____
MAXIMUM LADING DENSITY: _____
SHELL MATERIAL: GFRP
MINIMUM SHELL THICKNESS: 31.87 mm/1.25 inches
HEAD MATERIAL: GFRP
MINIMUM HEAD THICKNESS: _____
EXPOSED SURFACE AREA: _____

CARGO TANK PRESSURE VESSEL CONSTRUCTED IN ACCORDANCE WITH DOT SP-22043

DOT SPECIFICATION PLATE
CARGO TANK MOTOR VEHICLE MANUFACTURED BY
XXX Co.
XXX, XX INDIA
DOT Reg. # CT-XXXX

SPECIFICATION: **DOT 407/412 SP-22043**
CARGO TANK MOTOR VEHICLE CERTIFICATION DATE: **_____**
CARGO TANK MFR.: **_____**
CARGO TANK DATE OF MFG: **_____**
CARGO TANK MFR. SERIAL #: **_____**
CARGO TANK MOTOR VEHICLE MFR. VIN: **_____**
MAXIMUM PAYLOAD: **_____**
MAXIMUM LOADING RATE: **_____**
MAXIMUM UNLOADING RATE: **_____**

(vii) § 178.345-15 Certification: The manufacturer’s certificate retained by the motor carrier shall reflect the cargo tank manufacturer and final assembly and/or CTMV and reflect compliance of the terms contained in the special permit.

(viii) § 180.413: Any modification must be authorized in writing by OHMS. The cargo tank manufacturer must be notified and authorize any repairs to the pressure vessel including inner barrier. Repairs that effect the structural integrity of the cargo tank design that involve replacement of structural layers beyond the liner shall be considered “structural” and must be performed by the manufacturer. If total “structural” repair area is less than 2 sq. ft in total area the repair may be performed by an authorized service center approved by the manufacture following written procedures provided by the cargo tank manufacture.

b. TESTING:

(1) The GFRP cargo tank motor vehicle shall meet all requirements for DOT 407/412 CTMVs except that references to the ASME Code do not apply. Qualification and maintenance shall meet all requirements for DOT 407/412 CTMVs in Subpart E of Part 180.

(2) Initial qualification testing must be in accordance with § 180.405, except that any references to ASME Code requirements do not apply.

(3) Periodic requalification must include a hydrostatic test and an annual inspection of the inner barrier. In addition to those items required to be examined by the visual inspections specified in § 180.407(d) and (e), the visual inspections must include detection of cracks, gouges, debonding or delamination of any layers, and inner barrier deterioration. Any cracks or contamination that are beyond the inner barrier and extend into the structural layers will be considered to require structural repairs. Inner barrier deterioration that includes significant “fiber bloom” or exposed glass fibers subject to chemical attack below the surface layers will be cause for repair. Inner barriers on any cargo tanks that are manufactured with conductivity should be spark tested according to the manufacturer requirements.

c. OPERATIONAL CONTROLS: The compatibility of commodities and the GFRP cargo tank must be based on ASTM C 581 “Standard Test Method for Chemical Resistance of Thermosetting Resins Used in Glass Fiber Reinforced Structures”. Test reports must be maintained by the owner or manufacturer for as long as the cargo tank remains in active operation.

8. SPECIAL PROVISIONS:

a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the package 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 Special Permits and Approvals for a specific manufacturing facility.

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

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each 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 Quade
Acting 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/TG