



U.S. Department  
of Transportation

**Pipeline and Hazardous  
Materials Safety  
Administration**

**February 26, 2026**

1200 New Jersey Avenue, SE  
Washington, DC 20590

DOT-SP 22131

**EXPIRATION DATE: 2028-01-31**

(FOR RENEWAL, SEE 49 CFR 107.109)

1. **GRANTEE:** Composite Technical Systems C.T.S. S.p.A.  
Chiopris Viscone, Italy

**U.S. AGENT:** Ocenco Inc.  
Pleasant Prairie, WI

2. **PURPOSE AND LIMITATIONS:**

a. This special permit authorizes the manufacture, mark, sale, and use of UN composites cylinders conforming to all regulations applicable to ISO 11119-3:2013(E) for the transportation in commerce of the hazardous materials authorized by this special permit. 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 § 178.71(l)(1) in that the service life test program and the results must be approved.

Tracking Number: 2025114552

- 5. **BASIS:** This special permit is based on the application of Composite Technical Systems C.T.S. S.p.A. dated November 14, 2025, submitted in accordance with § 107.105 and the public proceeding thereon.
- 6. **HAZARDOUS MATERIALS (49 CFR 172.101):**

<b>Hazardous Material Description</b>			
<b>Proper Shipping Name</b>	<b>Hazard Class/ Division</b>	<b>Identification Number</b>	<b>Packing Group</b>
Air, compressed	2.2	UN1002	N/A

- 7. **SAFETY CONTROL MEASURES:**
  - a. **PACKAGING:** Packaging prescribed is an UN/ISO specification fully wrapped carbon fiber reinforced composite cylinder with a non-load sharing plastic liner as specified in CA2019100512. The cylinder is designed and tested in accordance with ISO 11119-3: 2013 (Gas Cylinders – Refillable composite gas cylinders and tubes up to 450L with non-load-sharing metallic or non-metallic liners) for type IV composite cylinders.
  - b. **REQUALIFICATION:** Each cylinder must be requalified once every 5 years in accordance with the requirements of 180.207 for UN composite pressure receptacles.
  - c. **MARKING:** In addition to the UN/ISO 11119-3 Standard marking requirements, the cylinder must be marked DOT SP-22131.

- 8. **SPECIAL PROVISIONS:**
  - a. **Service Life Extension Program:**
    - (1) Cylinders manufactured under this special permit are authorized for a maximum service life of 15 years from the date of manufacture. The service life extension program must be implemented for each design type that is intended for additional service life beyond 15 years to determine the additional years of service life. If cylinders are authorized for extended service life, the maximum service life of each cylinder under this special permit is 30 years from the date of manufacture.

(2) Under the service life extension program, the grantee must randomly recall a minimum of thirty (30) cylinders of each design type that have been in service for 10 and 13 years. Cylinders recalled after 10 years shall be designated “Group A” and cylinders recalled after 13 years shall be designated “Group B”. All recalled cylinders must be subjected to design requalification as specified in Sections 8.5.3 (Cylinder burst test), 8.5.4 (Ambient cycle test), and 8.5.8 (Flaw test) of ISO 11119-3: 2013. Out of the 30 cylinders, 15 must be used for burst test, 10 must be used for cycle test, and 5 must be used for flaw tolerance test. Acceptance criteria shall be as defined in ISO 11119-3: 2013, and the design life (y) must be greater than or equal to 20 years. All cylinders that fail to meet the requalification requirements must be condemned, removed from service and rendered incapable of retaining pressure. In the case that some units from the initial minimum lot size are condemned, an additional 30 cylinders must be selected and subjected to the same design requalification as specified above. An Independent Inspection Agency must witness all testing.

(3) A complete test report including physical testing results (i.e. burst, ambient cycling, flaw tolerance), as described in paragraph 8.a.(2), must be submitted to the AAHMS for assessment within 30 days of completion of the cylinder requalification and physical testing. Failure to meet the acceptance criteria specified in this paragraph 8.a. shall result in the design being restricted to a maximum service life of 15 years with no additional life extension.

b. 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.

c. A person who is not a holder of this special permit who 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.

d. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

e. 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.

f. 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, rail freight, cargo vessel, and cargo-only aircraft.
10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel, aircraft, or motor vehicle used to transport packages covered by this special permit. The shipper must furnish a copy of this special permit to the air carrier before or at the time the shipment is tendered.
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.:

A handwritten signature in blue ink, appearing to read "William Quade".

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-6, 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: AS