



U.S. Department  
of Transportation

**Pipeline and Hazardous  
Materials Safety  
Administration**

**February 07, 2023**

1200 New Jersey Avenue, SE  
Washington, DC 20590

DOT-SP 21125  
(SECOND REVISION)

**EXPIRATION DATE:2027-01-31**

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: CTS Cylinder Sales LLC  
Denver, CO
2. PURPOSE AND LIMITATION:
  - a. This special permit authorizes the transportation in commerce of certain hazardous materials in DOT Specification 3AL cylinders manufactured from aluminum alloy 6061-T6 that are requalified every ten years rather than every five years using 100% Ultrasonic Examination (UE). 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 the development of this special permit only considered the hazards and risks associated with the transportation in commerce.
  - c. No party status will 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 § 180.209(a) in that DOT 3AL cylinders may be requalified every ten years and are not required to be hammer tested prior to each refill; and 180.209(b)(1)(iv) in that ultrasound examination is authorized in lieu of hydrostatic testing and internal visual inspection.
5. BASIS: This special permit is based on the application of CTS Cylinder Sales, LLC dated November 22, 2022, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identi-fication Number	Packing Group
Liquefied or non-liquefied compressed gases or mixtures of such compressed gases, which are authorized in the Hazardous Materials Regulations to be transported in DOT-3AL cylinders.	2.1, 2.2, 2.3	As Appropriate	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING: Packaging prescribed is a DOT Specification 3AL cylinder that is subjected to periodic retesting, re-inspection and marking, as prescribed in §§ 180.205, 180.209 and 180.213, except that:

- (1) The cylinder is not required to be hammer tested.
- (2) The requalification periodicity of a cylinder used to transport Class 2.1 and 2.2 materials may be increased to 10 years after the cylinder has been subjected to 100% Ultrasonic Examination (UE) by an approved facility holding a valid UE special permit. Cylinders used to transport Class 2.3 materials must be requalified at least once every 5 years using 100% UE or using the hydrostatic test and interval visual examination.
- (3) The UE for 10-year requalification must use a reference (calibration) standard that, for cylinders less than 6" in diameter, includes a Flat-Bottom Hole (FBH) with a diameter less than or equal to 1/8" and a depth less than or equal to 0.025", respectively. For cylinders larger than 6" in diameter, the FBH must have a diameter less than or equal to 1/4" and a depth less than or equal to 1/6 of  $t_{min}$ .
- (4) After successful completion of requalification as described in the above section 7.a(2), the cylinder must be marked in accordance with the applicable UE special permit, indicating UE as the method of requalification.
  - (i) To indicate the 10-year periodicity, each cylinder must be plainly marked "DOT-SP 21125", followed by "\*" as specified in § 180.209 (b)(1)(vi) indicating 10-year requalification period.
  - (ii) Cylinders with diameters less the 5.0" may be marked using a 1/8" high character or alternatively, a label bearing "DOT-SP 21125", followed by "\*", may be affixed to the cylinder's sidewall near the shoulder region.

Marking and/or labeling must be permanent and durable through each requalification period.

b. OPERATIONAL CONTROLS:

- (1) Cylinders under this special permit must remain in dedicated service.
- (2) Prior to each filling the company filling the cylinder must ensure:
  - (i) Gas mixtures are chemically compatible with the cylinder material (aluminum alloy) and do not have an adverse effect on the cylinder's strength.
  - (ii) The quality of the gas and gas mixture meet all requirements of 180.209(b)(ii) and have a dew point below minus 52 °F at 1 atmosphere;
  - (iii) The cylinder under this special permit must be subjected to an external visual inspection in accordance with CGA pamphlet C-6.1;
- (3) Any cylinder that exhibits evidence of fire damage or exposure to excessive heat cannot be retested under the terms of the special permit.

8. SPECIAL PROVISIONS:

- a. 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 or its contents and it is reoffered for transportation in conformance with this special permit and the HMR.
- b. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle and rail freight.

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 Schoonover  
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Material Safety Administration, U.S. Department of Transportation, East Building PHH-30, 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: TG/Moore