



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety
Administration**

March 17, 2025

1200 New Jersey Avenue, SE
Washington, DC 20590

DOT-SP 16302
(FIFTH REVISION)

EXPIRATION DATE: 2029-02-28

(FOR RENEWAL, SEE 49 CFR 107.109)

1. GRANTEE: Ametek Inc.
Pittsburgh, PA
2. PURPOSE AND LIMITATION:
 - a. This special permit authorizes the transportation in commerce of gases contained in glass ampules as not subject to the Hazardous Materials Regulations or the International Civil Aviation Organization's Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO TI). This special permit provides no relief from the HMR or the ICAO TI 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.
 - d. This special permit serves as an "exemption" as defined in 1;3.1.1 of the ICAO TI and as a "Competent Authority Approval" as defined under 49 CFR § 107.1.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180 and the ICAO TI.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 171.1 and Parts 1 through 8 of the ICAO TI in that the hazardous materials are not subject to the Hazardous Materials Regulations and the ICAO TI, respectively, except as specified herein.
5. BASIS: This special permit is based on the application of Ametek Inc. dated April 17, 2024, submitted in accordance with § 107.109.

Tracking Number: 2024044680

6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Division 2.1 gases	2.1	As appropriate	N/A
Division 2.2 gases	2.2	As appropriate	N/A
Division 2.3 gases	2.3	As appropriate	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING: The devices transported under the terms of this special permit are not subject to the Hazardous Materials Regulations and the ICAO TI provided the devices meet the terms of this special permit, the requirements in § 173.175(a) through (g) and paragraph a) through f) of Special Provision A41 of the ICAO TI, except that these devices are not permeation devices. Section 173.175(f) and paragraph f) of Special Provision A41 of the ICAO TI do not apply for devices packaged as part of an analyzing system.

(1) Inner packaging: The inner packaging:

- (i) Is an ampule constructed of borosilicate glass with a maximum capacity not exceeding 31 ml;
- (ii) Contains gaseous hazardous materials at atmospheric pressure or lower when at a temperature of 20 °C (68 °F); and
- (iii) Is capable of containing the gas without leakage at 50 °C.

(2) Intermediate packaging:

- (i) When packaged as part of an analyzing system, the glass ampule must be fully enclosed in a robust metal reference cell housing as described in Ametek Inc.'s application. The reference cell must be firmly installed within the housing of the analyzing system. Each analyzing

system must be placed in a leakproof liner with sufficient adsorbent/absorbent material to adsorb/absorb the entire contents of the glass ampule in the reference cell.

(ii) When transported separately from an analyzing system, each glass ampule must be packed utilizing a sealed air foam-in-place system and placed in a hermetically sealed plastic barrier bag with sufficient adsorbent/absorbent material to adsorb/absorb the entire contents of the inside glass ampule. The total contents of hazardous materials in the glass ampule must be in accordance with the limit specified in 49 CFR 173.175(b). The number of glass ampules per package must be equivalent to the number of ampules used in the analyzing system. Each barrier bag and its contents must be packed in a metal can capable of withstanding a 100 kPa pressure differential test. The can must have a sufficient quantity of nonreactive filler material to immobilize the bag and its contents and to fill all void spaces.

(3) Outer packaging: The metal can or analyzing system must be packed in a strong outer packaging capable of meeting the requirements of § 173.175(e) and paragraph e) of Special Provision A41 of the ICAO TI. The gross mass of completed packages containing the metal cans shall not exceed 30 kg.

b. **MARKING**: Each package covered under the terms of this special permit must be plainly and durably marked "DOT-SP 16302" in accordance with § 172.301(c). This marking must comply with § 172.304.

8. **SPECIAL PROVISIONS**:

a. Under the terms of this special permit, the grantee may only offer hazardous materials (i.e., the grantee is not authorized as a carrier).

b. 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 reoffered for transportation in conformance with this special permit, the HMR and the ICAO TI.

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

d. This special permit in no way affects the need to obtain any required authorizations from other agencies of the United States Government or from the competent authorities of the States of origin, transit, over flight, and destination of the consignment, as well as the State of the air operator.

- e. For purposes of transportation by passenger-carrying aircraft and cargo vessel, this special permit also constitutes an exemption to the ICAO TI in accordance with 1;1.1.3.
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, cargo aircraft, cargo vessel, passenger-carrying aircraft and rail freight.
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 person who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit.
- 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 "W. Schoonover", is written over a horizontal line.

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-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: Casey Chambers/TG/RR