

Pipeline and Hazardous Materials Safety Administration 1200 New Jersey Avenue, SE Washington, DC 20590

DOT-SP 16395 (SECOND REVISION)

EXPIRATION DATE: 2026-11-30

(FOR RENEWAL, SEE 49 CFR 107.109)

1. <u>GRANTEE</u>: Chandler Instruments Company LLC Broken Arrow, OK

2. PURPOSE AND LIMITATIONS:

- a. This special permit authorizes the manufacture, mark, sale and use of non-DOT specification cylinders used in oil well sampling. 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 packaging may be used in accordance with 49 CFR 173.22a.
- 3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
- 4. <u>REGULATIONS FROM WHICH EXEMPTED</u>: 49 CFR §§ 173.201, 173.302(a), and 173.304 in that a non-DOT specification cylinder is not authorized and § 173.301(f) in that each non-DOT specification cylinder is not equipped with one or more pressure relief devices, except as specified herein.
- 5. <u>BASIS</u>: This special permit is based on the renewal application of Chandler Instruments Company LLC dated November 4, 2022, and submitted in accordance with § 107.109.

Tracking Number: 2022114255 (2nd Rev.)

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Material Description			
Proper Shipping Name	Hazard Class/ Division	Identi- fication Number	Packing Group
Compressed gas, flammable, n.o.s.	2.1	UN1954	N/A
Compressed gas, toxic, flammable, n.o.s. <i>Inhalation Hazard Zone B</i>	2.3	UN1953	N/A
Hydrocarbon gas mixture, compressed, n.o.s.	2.1	UN1964	N/A
Hydrocarbon gas mixture, liquefied, n.o.s.	2.1	UN1965	N/A
Hydrogen sulfide	2.3	UN1053	N/A
Liquefied gas, flammable, n.o.s.	2.1	UN3161	N/A
Nitrogen, compressed	2.2	UN1066	N/A
Petroleum crude oil	3	UN1267	I
Petroleum gases, liquefied <i>or</i> Liquefied petroleum gas	2.1	UN1075	N/A

7. SAFETY CONTROL MEASURES:

a. <u>PACKAGING</u>: Prescribed packaging is a non-DOT specification oil well sampling cylinder with a maximum design pressure of 15,000 psig and a maximum water capacity of 0.44 gallons (2,000 cubic centimeters). Each cylinder must comply with the design calculations, drawings, material specifications and engineering specifications submitted with the Chandler Instruments Company LLC application for special permit on file with the Office of Hazardous Materials Safety.

In addition, each cylinder must conform to Specification DOT 3A (§§ 178.35 and 178.36) except as follows:

§ 178.35(e) Safety devices.

No pressure relief device is required on the completed cylinder. The cylinder must be equipped with elastomeric seals that relieve pressure when subjected to a pool fire.

§ 178.35(f) Marking.

Applies except that cylinder must be marked "DOT-SP 16395" in lieu of DOT Specification marking.

§ 178.36(b) Steel.

UNS S17400; 17-4 PH in accordance with the AMETEK-Chandler Engineering Material Specifications MS-0022, Rev E.

§ 178.36(d) Manufacture.

XYLAND coating on threads, 1000/1420 series, 0.0005-0.001 thick (Vessel Only).

§ 178.36(f) Wall thickness.

The minimum wall thickness must not be less than 0.239 inch. The wall stress at the minimum specified test pressure may not exceed 67% of the minimum tensile strength of the material as determined from the physical test required in § 178.36(k) and § 178.36 (l) below.

§ 178.36(g) *Heat treatment*.

No heat treatment is required for the completed cylinder.

§ 178.36(j) Flattening test.

Flattening test is not required.

§ 178.36(1) Acceptable results for physical tests.

UNS S17400 17-4 PH

Minimum Tensile Strength: 125,000 psi Minimum Yield Strength: 105,000 psi

Minimum Elongation: 20% on 2 inch gauge specimen

- b. <u>TESTING</u>: Each cylinder must be inspected and hydrostatically retested in accordance with §§ 180.205 and 180.209 as prescribed for Specification DOT 3A cylinders. Reheat treatment or repair of rejected cylinders is not permitted.
- c. OPERATIONAL CONTROLS:

- (1) Each cylinder must be individually packed in the transportation box as specified in the AMETEK-Chandler Engineering reference drawing no 2347-400.
- (2) The maximum in-transportation pressure is 15,000 psig.
- (3) Emergency response information provided with the shipment and available via an emergency response telephone number must indicate that the receptacles are not fitted with pressure relief devices.
- (4) The cylinder is authorized for oil well sampling service only.
- (5) Transportation of Division 2.1 (Flammable gases) and 2.3 (Poisonous gases) are not authorized aboard cargo vessel or cargo aircraft unless specifically authorized in the Hazardous Materials Table (§ 172.101).

8. <u>SPECIAL PROVISIONS</u>:

- 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 <u>name of the manufacturer and location (city and state) of the facility at which it is manufactured</u> or (2) marked with a <u>registration symbol</u> designated by the Office of Hazardous Materials Safety <u>for a specific manufacturing facility</u>.
- 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. <u>MODES OF TRANSPORTATION AUTHORIZED</u>: Motor vehicle, rail freight, cargo vessel, and cargo aircraft only.
- 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. <u>COMPLIANCE</u>: 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. <u>REPORTING REQUIREMENTS</u>: 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

December 13, 2022

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-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