



SPECIAL PERMIT NO. 922 REVISION NO. 15

This Special Permit is issued pursuant to the terms of Section 73.22(a)(1) of the Canadian Transport Commission's "Regulations for the Transportation of Dangerous Commodities by Rail" to authorize the shipment by railway in Canada certain liquefied and non-liquefied compressed gases in seamless aluminum cylinders under conditions prescribed herein, and does not relieve any shipper or carrier from compliance with any requirement of the Commission's Regulations, except as specifically stated.

1. BASIS

Letter dated October 29, 1984 from Luxfer U.S.A. Limited, 1995 Third Street, Riverside, California, 92507.

2. COMMODITY CLASSIFICATION

Non-flammable gas 2.2 or as appropriate.

3. PROPER SHIPPING NAME

a) Air, compressed; b) Argon, compressed; c) Carbon dioxide; d) Helium, compressed; e) Nitrogen, compressed; f) Nitrous oxide; g) Oxygen, compressed or any other flammable or non-flammable, liquefied or non-liquefied compressed gas for which CTC-3A and CTC3AA cylinder is prescribed in Part 73 of the Commission's Regulations contingent on compatibility of commodity with materials of construction.

4. U.N. IDENTIFICATION NUMBER

a) 1002; b) 1006; c) 1013; d) 1046; e) 1066; f) 1070; g) 1072 or as appropriate.

5. REGULATION AFFECTED

73.302(a)(1), 73.304(a)(1) and (d)(3), 73.336(a)(2), 73.337(1).

6. AUTHORIZED SHIPPER

Luxfer U.S.A. Limited, 1995 Third Street, P.O. Box 5300, Riverside, California, 92507, U.S.A., its agents or distributors.

7. PACKAGING DESCRIPTION

a) Non-CTC specification refillable seamless cylinders made of aluminum alloy in accordance with Aluminum Association Alloy designated 6351-T6. The size of the cylinder shall not exceed 1,000 pounds water capacity and shall have a service pressure of at least 150 psig.

- b) Design shall be in accordance with DOT Specification 3AL for aluminum cylinder except as follows:

178.46-3 does not apply

178.46-4(12) does not apply

178.46-15(a)(1): Upon satisfactory completion of inspection and testing, each cylinder shall be marked by stamping on the shoulder, top, head or neck of the cylinder "CTC SP 922" or "CTC/DOT3AL".

178.46-15: Such marks may not conflict with any DOT/CTC required markings.

## 8. SPECIAL REQUIREMENTS

- a) Cylinders charged with oxygen shall comply with the following:
- i) Service pressure in the container shall not exceed 3,000 psig. at 70°F.
  - ii) Cylinder threads shall be straight threads. Tapered threads are not authorized.
  - iii) Only brass valves are authorized.
  - iv) Every cylinder shall be cleaned in accordance with military specification RR-C-901b, dated August 1, 1967, paragraph 4.4.2.3. One cylinder selected at random from each lot of 200 or less shall be tested and meet the cleanliness standard specified in RR-C-901b, dated August 1, 1967, paragraph 3.8.2.
- b) All cylinders shall be inspected and tested by a representative from Authorized Testing, Riverside, California, in complete accordance with specification DOT 3AL. Inspection reports as prescribed in 178.48-16 of specification DOT 3AL shall be submitted to the Director of Operation.
- c) Each cylinder shall be retested at least every five years as prescribed in Section 73.34(e) for the CTC Specification 3AA cylinders, except that a cylinder condemned for excessive permanent expansion may not be reheat treated.
- d) Cylinders previously marked "CTC/DOT E-6498" are acceptable for continued service.

## 9. REPORTING REQUIREMENTS

The Director of Operation shall be advised of any incident involving loss of contents and shall be provided with a summary of experience before the expiration date of the Special Permit.

10. EXPIRY DATE

December 11, 1985.

*[Handwritten signature]*  
Director of Operation  
Railway Transport Committee

Issued at Hull, Quebec  
this 11th day of December 1984

Address all inquiries to:

Director of Operation, RTC  
Canadian Transport Commission  
25 Eddy Street, 14th Floor  
Hull, Quebec  
K1A 0N9

This Special Permit shall come into force December 24, 1984.