

**Luxfer Gas Cylinders
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Australia**

**Code of Practice for
Fibre Reinforced Compressed Gas
Cylinder to DOT-E 7235**

**Approved Code of Practice
Under the Hazardous Substances and New
Organisms (HSNO) Act 1996**

**Code of Practice HSNOCOP 7-1
Version 05-06
Date of Approval: 31/05/06**

Approval of Code of Practice

This Code of Practice entitled Fibre Reinforced Compressed Gas Cylinder to DOT-E 7235 is approved as a Code of Practice No. HSNO COP 7-1 05-06 pursuant to Sections 78 and 79 of the Hazardous Substances and New Organisms Act. The Environmental Risk Management Authority has delegated the power to approve Codes of Practice to the Chief Executive of ERMA New Zealand, and this code is approved in accordance with that delegation. It is confirmed that the requirements of Sections 78 and 79 have been met.

This publication is approved as a means of compliance with regulation 10 (c) of the Hazardous Substances (Compressed Gases) Regulations 2004 in respect of the standard of design for compressed gas cylinders.

Approval of the code is limited to:

- those matters in the document that relate to legislative requirements under the HSNO Act and its regulations
- the date at which the DOT-E 7235 Standard, or its subsequent extensions, expire.

This code has been developed by the U.S Department of Transportation and sets out the requirements to meet the DOT FRP-2 Standard entitled Basic Requirements for Fiber Reinforced Plastic (FRP) Type 3HW Composite Cylinders.

The intended publication date in the Gazette for the Notice of Approval of this Code of Practice is 8th June 2006.

Pursuant to Section 80 (1) (a) of the Act, a copy of the code may be inspected at the Wellington office of ERMA New Zealand.

Pursuant to Section 80 (1) (b) of the Act, a copy of the code is available from the US Department of Transportation website:

http://hazmat.dot.gov/sp_app/special_permits/docs/07000/E07235.pdf

Approved this 31st day of May 2006.

Rob Forlong
Chief Executive
ERMA New Zealand

1 Purpose

The purpose of this Approved Code of Practice is to provide a standard for the design and construction of fibre reinforced compressed gas cylinders.

2 Scope of This Code

This Code of Practice applies to the design and construction of cylinders for the transport and use of compressed gases and which are constructed by Luxfer Gas Cylinders in accordance with the DOT-E 7235 exemption issued by the U.S Department of Transportation.

This Code of Practice is approved by the Environmental Risk Management Authority (Authority) pursuant to Sections 78 and 79 under the HSNO Act as a means of compliance with regulation 10 (c) of the Hazardous Substances (Compressed Gases) Regulations 2004.

Compliance with this Code does not obviate the requirement to comply with other sections of the HSNO legislation (or related regulations) or other legislation such as the Health and Safety in Employment Act 1992.

3 The HSNO Act and the Place of Codes of Practice

The HSNO regulations are largely performance based, that is, they specify a desired outcome without necessarily prescribing how to achieve it. They do not require that a single specific means be used to comply with any regulation and this allows for variations in method used for compliance.

The HSNO Act provides for Codes of Practice approved by the Authority to identify acceptable solutions to comply with the specified regulatory requirements. An Approved Code of Practice provides users with a method of meeting the control requirements with a degree of prescription and assistance.

In addition, specific provisions of the HSNO regulations and Gazetted transfer notices permit Codes of Practice to be approved by the Authority as alternatives to other specified requirements provided they can be shown to provide an equivalent level of safe management.

Clause 10 (c) of the Hazardous Substances (Compressed Gases) Regulations 2004 specifies standards for the design of cylinders. Sub clause (c) of this regulation enables the Authority to approve a code as an alternate to the nominated standards.

4 Design and Construction Requirements

4.1 Standards

Every cylinder designed and constructed under this Code of Practice must be designed and constructed in accordance with the following:

DOT-E 7235 (Nineteenth Revision) issued by the U.S Department of Transportation and available from the US Department of Transportation PHMSA Office of Hazardous Material website at:
http://hazmat.dot.gov/sp_app/special_permits/docs/07000/E07235.pdf

This publication authorises Luxfer Gas Cylinders to manufacture cylinders conforming with:

DOT FRP-2 Standard entitled Basic Requirements for Fiber Reinforced Plastic (FRP) Type 3HW Cylinders for use with compressed air, compressed argon, carbon dioxide, compressed helium, compressed nitrogen and compressed oxygen and is available from the US Department of Transportation PHMSA Office of Hazardous Material website at:
<http://hazmat.dot.gov/enforce/guideance/frp-2.pdf>

4.2 Maintenance of this Code of Practice 7-1

The nineteenth revision of DOT-E 7235 has an expiration date of January 31, 2007. The U.S. Department of Transportation regularly reissues further revisions upon submission by the manufacturer. This Code of Practice HSNOCOP 7-1 expires on January 31, 2007 unless extended by the Environmental Risk Management Authority.