



This safe work instrument is administered by WorkSafe New Zealand. For more information please see:

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Health and Safety at Work (Hazardous Substances— Specification of Design Standards for Refillable Cylinders) Safe Work Instrument 2018

This safe work instrument is approved under section 227 of the Health and Safety at Work Act 2015 by the Minister for Workplace Relations and Safety, being satisfied that appropriate consultation has been carried out under section 227(3) of that Act.

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Schedule 1

Design standards for Refillable Cylinders

Safe Work Instrument

1 Title

This is the Health and Safety at Work (Hazardous Substances—Specification of Design Standards for Refillable Cylinders) Safe Work Instrument 2018.

2 Commencement

This safe work instrument comes into force on 1 August 2018.

3 Interpretation

(1) In this safe work instrument, unless the context otherwise requires,—

Act means the Health and Safety at Work Act 2015

Regulations means the Health and Safety at Work (Hazardous Substances) Regulations 2017.

(2) Any term or expression that is defined in the Act or the Regulations and used, but not defined, in this safe work instrument has the same meaning as in the Act or the Regulations.

4 Application

This safe work instrument applies to—

- (a) refillable cylinders (other than a fire extinguisher); and
- (b) any refillable or non-refillable gas container required by a relevant safe work instrument to comply with subpart 2 of Part 15 of the Regulations.

5 Specification of standards

For the purpose of regulation 15.8(1)(b) of the Regulations, the design standards listed in Schedule 1 are specified as design standards for a refillable cylinder, other than a fire extinguisher.

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**Schedule 1
Design standards for Refillable Cylinders**

Item	Design standard reference	Name or title of design standard	Additional description and information
<i>American standard</i>			
1	DOT-SP 10915, 21st revision, published by the Department of Transport		Fully wrapped carbon-fibre reinforced aluminium lined cylinders conforming to DOT CFFC
<i>British standards</i>			
2	BS EN 12245: 2009+A1:2011	Transportable gas	

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		cylinders—Fully wrapped composite cylinders	
3	BS EN 13322-1:2003+A1:2006	Transportable gas cylinders—Refillable welded steel gas cylinders—Design and construction Part 1 Carbon steel	
<i>ISO standards</i>			
4	ISO 4706—2008	Gas cylinders—Refillable welded steel cylinders—Test pressure 60 bar and below	
5	ISO 9809-1:2010	Gas cylinders—Refillable seamless steel gas cylinders—Design, construction and testing—Part 1: Quenched and tempered steel cylinders with tensile strength less than 1 100 MPa	

Made at Wellington on 9 July 2018.

Hon Iain Lees-Galloway
Minister for Workplace Relations and Safety

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