

# DIN EN ISO 10961:2012-06 (E)

## Gas cylinders - Cylinder bundles - Design, manufacture, testing and inspection (ISO 10961:2010)

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
Introduction .....		4
1	Scope .....	5
2	Normative references .....	5
3	Terms and definitions .....	6
4	Design .....	8
4.1	General .....	8
4.2	Material .....	8
4.3	Frame .....	8
4.4	Cylinders .....	10
4.5	Cylinder valves and cylinder fittings .....	10
4.6	Manifold .....	10
4.7	Main connection(s)/main valve(s) .....	11
4.8	Assembled bundle .....	11
5	Manufacturing .....	11
6	Identification .....	11
6.1	General .....	11
6.2	Product and hazard identification .....	12
6.2.1	Precautionary labels .....	12
6.2.2	Colour coding .....	12
6.3	Bundle identification for filling .....	12
6.3.1	General .....	12
6.3.2	Grouping and size of marks .....	12
6.3.3	Manufacturing marks .....	12
6.3.4	Operational marks .....	13
6.3.5	Certification marks .....	13
6.4	Other useful information .....	13
7	Testing and inspection .....	13
7.1	General .....	13
7.2	Prototype testing of the frame, the manifold and the fully assembled bundle .....	14
7.2.1	Approvals .....	14
7.2.2	Tests .....	14
7.3	Test and inspection at time of manufacture .....	15
7.3.1	Frame .....	15
7.3.2	Manifold .....	16
7.3.3	Bundle .....	16
8	Documentation .....	16
Annex A (normative)	Special requirements for design, manufacture and testing of bundles disassembled at the time of filling, including acetylene cylinders .....	18
Annex B (normative)	Specific requirements for acetylene cylinder bundles .....	19
Bibliography .....		24