

DIN EN ISO 3807:2015-02 (E)

Gas cylinders - Acetylene cylinders - Basic requirements and type testing (ISO 3807:2013, Corrected version 2014-11-01)

Contents		Page
Foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Basic requirements	7
4.1	Cylinder shell	7
4.2	Porous material	7
4.3	Solvent content and acetylene content	8
4.4	Working pressure	8
4.5	Cylinder identification	8
4.6	Fusible plugs	8
4.7	Accessories	9
5	Type approval	9
5.1	General requirements	9
5.2	Request for approval	9
5.3	Cylinder type tests	10
5.4	Information to be given in the type approval document	11
6	Manufacturing of the porous material	12
7	Solvent-free acetylene cylinders	12
Annex A (normative) Determination of the porosity of the porous material		13
Annex B (normative) Determination of the compressive strength of monolithic porous materials		14
Annex C (normative) Calculation of the working pressure		15
Annex D (normative) Verification that development of hydraulic pressure is prevented		16
Annex E (normative) Backfire test		18
Annex F (normative) Fire test		22
Annex G (normative) Testing of the integrity of the porous material in the area of joggle welds		25
Annex H (normative) Test procedures for fusible plugs used in acetylene cylinders		26
Annex I (normative) Inspection procedures for the manufacture of acetylene cylinders		28
Annex J (informative) Explanation and examples for the calculation method according to D.3		30
Bibliography		32