

DIN EN ISO 21028-1:2017-01 (E)

Cryogenic vessels - Toughness requirements for materials at cryogenic temperature - Part 1: Temperatures below -80 Å°C (ISO 2102 8-1:2016)

Contents

Page

European foreword.....	3
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of Directive 2014/68/EU of the European Parliament and of the Council of 15 May 2014 on the harmonization of the laws of the Member States relating to the making available on the market of pressure equipment	4
Foreword.....	5
Introduction.....	6
1 Scope.....	7
2 Normative references.....	7
3 Terms and definitions.....	7
4 Toughness requirements.....	7
4.1 General.....	7
4.2 Steels.....	7
4.3 Aluminium or aluminium alloys.....	8
4.4 Copper or copper alloys.....	8
4.5 Test methods.....	8
4.5.1 General.....	8
4.5.2 Test piece locations for plates.....	9
4.5.3 Test piece locations for welds and heat-affected zones.....	9
4.6 Acceptance criteria.....	11
4.6.1 For impact energy.....	11
4.6.2 For lateral expansion.....	11
Bibliography.....	13