DIN 50125:2022-08 (E)

Testing of metallic materials - Tensile test pieces

Contents

Page

Foreword 3

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Test piece types and designation 5
4.1 General 5
4.2 Type A tensile test piece 7
4.3 Type B tensile test piece 8
4.4 Type C tensile test piece 10
4.5 Type D tensile test piece 12
4.6 Type E tensile test piece 14
4.7 Type F tensile test piece 18
4.8 Type G tensile test piece 19
4.9 Type H tensile test piece 20

5 Marking 21

Bibliography 22

Figures Figure 1 -- Type A tensile test piece: Circular cross-section with cylindrical grip sections 7

Figure 2 -- Type B tensile test piece: Circular cross-section with threaded grip sections 9

Figure 3 -- Type C tensile test piece: Circular cross-section with shouldered ends 11

Figure 4 -- Type D tensile test piece: Circular cross-section with conus ends 13

Figure 5 -- Type E tensile test piece: Flat test piece with machined parallel length 15

Figure 6 -- Thickness ao, width bo and original gauge length Lo of flat test pieces and the coefficient of proportionality k = 5,65 (short proportional test piece) 17

Figure 7 -- Type H tensile test pieces: Flat test piece with machined parallel length 21

Tables Table 1 -- Dimensional tolerances and shape tolerances for diameter or thickness and width of the parallel length of the test piece 6

Table 2 -- Examples of dimensions for type A tensile test pieces 8

Table 3 -- Examples of dimensions for type B tensile test pieces 9

Table 4 -- Examples of dimensions for type C tensile test pieces 11

Table 5 -- Examples of dimensions for type D tensile test pieces 13

Table 6 -- Examples of dimensions for type E tensile test pieces 15

Table 7 -- Examples of dimensions for type F tensile test pieces 18

Table 8 -- Examples of dimensions for type G tensile test pieces 19

Table 9 -- Examples of dimensions for type H tensile test pieces 21