ISO 12301:2007-10 (E)

Plain bearings - Quality control techniques and inspection of geometrical and material quality characteristics

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Symbols and units 4

5 Summary of defined quality characteristics 5

6 Geometrical quality characteristics 7
6.1 Wall thickness, s3 7
6.2 Outside diameter, Do 13
6.3 Inside diameter, Di 14
6.4 Width, B 17
6.5 Locating features 18
6.6 Lubricant feed and distribution features 19
6.7 Surface conditions 20
6.8 Crush height, a (peripheral length) 21
6.9 Free spread 22
6.10 Straightness of sliding surface 23
6.11 Joint face taper, h 24
6.12 Back contact 24
6.13 Joint displacement, B 25
6.14 Height of thrust half-washer, H 25
6.15 Flatness 26
6.16 Flange diameter, Dfl 27
6.17 Distance between flanges, afl 28
6.18 Flange thickness, sfl 29
6.19 Perpendicularity (squareness) of flange 30
6.20 Geometric deviations 31

7 Material quality characteristics 35
7.1 Metallic solid materials 35
7.2 Metallic multilayer material 36
7.3 Polymer layer material 38
7.4 Solid polymer material 39
7.5 Sintered material 39

Annex A (informative) Calculation of tangential load 40

Bibliography 47