

ISO 18669-1:2013-07 (E)

Internal combustion engines - Piston pins - Part 1: General specifications

Contents

Page

Foreword	iv
1 Scope	1
2 Terms and definitions	1
2.1 General	1
2.2 Geometrical and manufacturing features of piston pins	1
3 Symbols	2
4 Nomenclature	3
4.1 Outside, inside and end features	3
4.2 Outside edge and inside chamfer configurations	6
4.3 Outside-edge drop-off configuration	8
5 Codes	9
6 Designation of piston pins	10
6.1 Designation elements and order	10
6.2 Designation examples	11
7 Piston pin types, dimensions and tolerances	11
7.1 Manufacturing types	11
7.2 Dimensions and tolerances	12
8 Material and heat treatment	17
8.1 Type of material	17
8.2 Core hardness I core strength	19
8.3 Carburised and nitrided case depth	19
8.4 Surface hardness	20
8.5 Volume change	20
9 Common features	20
9.1 Roughness of surfaces	20
9.2 Marking of piston pins	21
9.3 Miscellaneous	21
10 Quality requirements	22
10.1 Material characteristics	22
10.2 Material defects	22
10.3 Visual defects	23
Bibliography	24