ISO 8535-1:2016-11 (E)

Diesel engines - Steel tubes for high-pressure fuel injection pipes - Part 1: Requirements for seamless cold-drawn single-wall tubes

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Dimensions and tolerances 1
4.1 Diameters 1
4.2 Length 2

5 Material processing 2
5.1 Steel manufacturing process 2
5.2 Manufacturing of tubes 2
5.3 Surface quality 4
5.3.1 General 4
5.3.2 Minimum quality inside surface (bore grade S) 4
5.3.3 Higher quality inside surface (bore grades O, P, Q, R) 4
5.4 Surface finish 4
5.5 Minimum mechanical properties of tubes 5
5.6 Cleanliness 5
5.7 Straightness 5
5.8 Corrosion resistance 5

6 Testing 5
6.1 General 5
6.2 Scope of tests 5
6.3 Dimension tests 6
6.4 Mechanical-property tests 6
6.5 Bending test 6
6.6 Cold upsetting of tubes 6
6.7 Surface quality test 6
6.8 Inside pressure test 6
6.9 Retesting 6
6.10 Test certificate 7

7 Designation 7

8 Identificationandmarking 8

9 Packing 8

Annex A (informative) Theoretical maximum pressure for inside pressure testing 9

Bibliography 10