ISO 683-4:2014-08 (E)

Heat-treatable steels, alloy steels and free-cutting steels - Part 4: Free-cutting steels

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 2

4 Classificationanddesignation 2
4.1 Classification 2
4.2 Designation 2

5 Information to be supplied by the purchaser 2
5.1 Mandatory information 2
5.2 Options/Supplementary or special requirements 3

6 Manufacturing process 3
6.1 General 3
6.2 Heat treatment and surface condition at delivery 3
6.3 Traceability of the cast 3

7 Requirements 4
7.1 Chemical composition, hardness, and mechanical properties 4
7.2 Machinability 4
7.3 Weldability 4
7.4 Grain size 4
7.5 Internal soundness 4
7.6 Surface quality 5
7.7 Shape, dimensions, and tolerances 5

8 Inspection 5
8.1 Testing procedures and types of documents 5
8.2 Frequency of testing 6
8.3 Specific inspection and testing 6

9 Test methods 6
9.1 Chemical analysis 6
9.2 Hardness and mechanical tests 6
9.3 Retests 6

10 Marking 7

Annex A (normative) Ruling sections for mechanical properties 14

Annex B (normative) Supplementary or special requirements 17

covered in various designation systems 19

Annex D (informative) Dimensional standards applicable to products complying with this part of
Bibliography 21