ISO 5000:2019 (E)

Steel sheet, aluminium-silicon alloy-coated by the continuous hot-dip process, of commercial and drawing qualities

Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

4 Dimensions

5 Conditions of manufacture

- 5.1 Steelmaking
- 5.2 Chemical composition
- 5.3 Chemical analysis
- 5.3.1 Heat analysis
- 5.3.2 Product analysis
- 5.4 Mechanical properties
- 5.4.1 Ordering conditions
- 5.4.2 Fabrication qualities
- 5.4.3 Interstitial free steel
- 5.5 Coating
- 5.5.1 Silicon content
- 5.5.2 Coating mass
- 5.5.3 Coating adherence
- 5.6 Weldability
- 5.7 Coating finish condition
- 5.8 Surface treatment
- 5.8.1 Mill passivation
- 5.8.2 Oiling
- 5.9 Coated coil joining
- 5.10 Dimensional and shape tolerances

6 Sampling

- 6.1 Tensile test
- 6.2 Coating tests
- 6.2.1 Coating mass
- 6.2.2 Triple-spot test
- 6.2.3 Single-spot test
- 6.2.4 Coating adherence

7 Test methods

- 7.1 Tensile test
- 7.2 Coating properties
- 7.2.1 Coating mass
- 7.2.2 Coating adherence

8 Designation system

- 8.1 General
- 8.2 Coating designation
- 8.3 Coating mass
- 8.4 Coating finish condition
- 8.5 Surface treatment
- 8.6 Base-metal quality

8.7 Examples

9 Retests

9.1 Machining and flaws
9.2 Elongation
9.3 Additional tests

10 Resubmission

11 Workmanship

12 Inspection and acceptance

13 Coil size

14 Marking

15 Information to be supplied by the purchaser

Annex A (normative) Orders requiring base-metal thickness

Annex B (normative) Determination of mass of coating on aluminium-silicon alloy-coated steel sheet

B.1 General
B.2 Procedure A: stripping with hydrochloric acid
B.2.1 Apparatus
B.2.2 Reagents
B.2.3 Sampling
B.2.4 Procedure
B.2.5 Expression of results
B.3 Procedure B: stripping with inhibited hydrochloric acid
B.3.1 Principle
B.3.2 Apparatus
B.3.3 Reagents
B.3.4 Sampling
B.3.5 Procedure
B.3.6 Expression of results

Page count: 16