ISO 1456:2009-08 (E)

Metallic and other inorganic coatings - Electrodeposited coatings of nickel, nickel plus chromium, copper plus nickel and of copper plus nicke l plus chromium

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Information to be supplied by the purchaser to the processor 3
4.1 Essential information 3
4.2 Additional information 3

5 Designation 4
5.1 General 4
5.2 Designation specifications 4
5.3 Service-condition number 5
5.4 Type of copper coating 13
5.5 Types of nickel coating 13
5.6 Types and thicknesses of chromium 14

6 Requirements 14
6.1 Appearance 14
6.2 Coating thickness 15
6.3 Double- and triple-layer nickel coatings 15
6.4 Adhesion 15
6.5 Corrosion resistance in CASS, Corrodkote and salt spray tests 15
6.6 STEP test requirements 15
6.7 Ductility 16
6.8 Stress-relief heat treatments before coating 16
6.9 Hydrogen-embrittlement-relief treatment 16
6.10 Sampling 16

Annex A (informative) Determination of cracks and pores in chromium coatings 17

Annex B (normative) Methods of test for the determination of thickness 20

Annex C (normative) Ductility test 22

Annex D (normative) Determination of the sulfur content of electrodeposited nickel 23

Annex E (informative) Step test method 24

Bibliography 25