ISO 12683:2004-11 (E)

Mechanically deposited coatings of zinc - Specification and test methods

Contents

Page

Foreword v

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Information and requirements to be agreed and documented by the purchaser 2
4.1 General 2
4.2 Essential information 2
4.3 Additional information 2

5 Substrate 3

6 Classification and designation of coatings 3
6.1 Service condition number 3
6.2 Class of zinc coating thickness and type of supplementary treatment 3

7 Requirements for pretreatments 4
7.1 Stress relief treatment before coating 4
7.2 Cleaning 4

8 Inspection 4
8.1 Appearance 4
8.2 Surface defects 4
8.3 Thickness 4
8.4 Adhesion 5
8.5 Corrosion resistance in accelerated salt spray test 5
8.6 Absence of hydrogen embrittlement 7

9 Sampling 7

10 Rejection 8

11 Attestation of conformity 8
11.1 General 8
11.2 Normal conditions 8
11.3 Specific conditions 8

Annex A (informative) Additional information 9

A.1 Coating application process 9
A.2 Coating corrosion resistance characteristics in outdoor environments 9
A.3 Specific supplementary coating types 10
A.3.1 Coating Type 1 10
A.3.2 Coating Type 2 10
A.3.3 Coating Type 3 10
A.4 Relationship between coating weight and thickness 11

Annex B (normative) Zinc dust/powder specification 12

Bibliography 13