ISO 9934-2:2015-09 (E)

Non-destructive testing - Magnetic particle testing - Part 2: Detection media

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Safety precautions 2

5 Classification 2
5.1 General 2
5.2 Magnetic inks 2
5.3 Powders 2

6 Testingandtestcertificate 2
6.1 Type testing and batch testing 2
6.2 In-service testing 2

7 Requirements and test methods 2
7.1 Performance 2
7.1.1 Type testing and batch testing 2
7.1.2 In-service testing 3
7.1.3 Contrast aid paints 3
7.2 Colour 3
7.3 Particle size 3
7.3.1 Method 3
7.3.2 Definition of the particle size 3
7.4 Temperature resistance 3
7.5 Fluorescent coefficient and fluorescent stability 3
7.5.1 Type testing 4
7.5.2 Batch testing 5
7.6 Fluorescence of carrier liquid 5
7.7 Flash point 5
7.8 Corrosion induced by detection media 5
7.8.1 Corrosion testing on steel 5
7.8.2 Corrosion testing of copper 5
7.9 Viscosity of the carrier liquid 5
7.10 Mechanical stability 5
7.10.1 Long term test (endurance test) 5
7.10.2 Short-term test 6
7.11 Foaming 8
7.12 pH 8
7.13 Storage stability 8
7.14 Solids content 8
7.15 Sulfur and halogen content 8

8 Testing requirements 8

9 Test report 9

10 Packaging and labelling 9

Annex A (normative) Procedure for type, batch, and in-service testing 10

Annex B (normative) Reference blocks 12

Annex C (normative) Corrosion testing of steel 17

Bibliography 21