ISO 9934-1:2001-12 (E)

Non-destructive testing - Magnetic particle testing - Part 1: General principles

Contents

Page

Foreword v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Qualification and certification of personnel 1

5 Safety and environmental requirements 1

6 Testing procedure 2

7 Surface preparation 2

8 Magnetization 2
8.1 General requirements 2
8.2 Verification of magnetization 3
8.3 Magnetizing techniques 4
8.3.1 Current flow techniques 4
8.3.2 Magnetic flow techniques 4

9 Detection media 5
9.1 Properties and selection of media 5
9.2 Testing of detection media 6
9.3 Application of detection media 6

10 Viewing conditions 6

10.1 Coloured media 6

10.2 Fluorescent media 7

11 Overall performance test 7

12 Interpretation and recording of indications 7

13 Demagnetization 7

14 Cleaning 8

15 Test report 8

Annex A (informative) Example for determination of currents required to achieve specified tangential field strengths for various magnetization techniques 12