DIN EN ISO 8249:2018-11 (E)

Welding - Determination of Ferrite Number (FN) in austenitic and duplex ferritic-austenitic Cr-Ni stainless steel weld metals (ISO 8249:2018)

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **5**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **6**

4 Principle ... **6**

5 Calibration ... **7**
5.1 Coating thickness standards ... 7
5.2 Magnet ... 7
5.3 Instruments ... 7
5.4 Calibration curve ... 8

6 Standard method for covered electrode test pads ... **10**
6.1 Dimensions of weld metal test specimens ... 10
6.2 Depositing weld metal test specimens ... 10
6.3 Measuring ... 11
6.3.1 Surface finishing ... 11
6.3.2 Individual measurements ... 11
6.3.3 Reporting ... 12

7 Standard methods for test pads of other processes and for production welds ... **12**
7.1 Standard method for test pads for other weld metals ... 12
7.2 Production welds ... 12

8 Other methods ... **12**
8.1 Methods ... 12
8.2 Maintaining calibration ... 13

9 Procedures used to prepare secondary standards for delta ferrite in austenitic stainless steel weld metal ... **13**

Annex A (informative) **Manufacture of secondary standards by strip cladding** ... **14**

Annex B (informative) **Manufacture of secondary standards by centrifugal chill casting** ... **24**

Bibliography ... **32**