DIN EN ISO 18592:2010-05 (E)

Resistance welding - Destructive testing of welds - Method for the fatigue testing of multi-spot-welded specimens (ISO 18592:2009)

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 6

3 Terms and definitions 7

4 Symbols and abbreviated terms 9

5 Specimens 11
5.1 General 11
5.2 Selection of suitable specimens 12
5.3 Specimen fabrication 14
5.4 Specimen geometry 15

6 Requirements for testing machine 25

7 Specimen grips and alignment 26
7.1 General 26
7.2 Shear and peel loading 27

8 Test procedure 28
8.1 General 28
8.2 Mounting the H-specimens 28
8.3 Clamping procedure for the H-specimens 28
8.4 Fatigue test 28
8.5 Test termination 29

9 Test report 31
9.1 Basic information 31
9.2 Presentation of fatigue test results 32

Annex A (informative) Calibration specimen for verifying the load distribution in H-specimens 34

Annex B (informative) Hydraulic grips for the fatigue testing of H-specimens 35

Annex C (informative) Grip for the fatigue testing of H-specimens 36

Annex D (informative) Flow chart -- Data acquisition 37

Bibliography 40