DIN EN ISO 14373:2015-06 (E)

Resistance welding - Procedure for spot welding of uncoated and coated low carbon steels (ISO 14373:2015)

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 6

4 Symbols and abbreviated terms 6

5 Materials 7
5.1 Form 7
5.2 Steel grades 7

6 Surface conditions 7

7 Edge conditions, form of component, and weld spacing 7

8 Electrodes 7
8.1 Materials 7
8.2 Dimensions 7
8.3 Cooling of electrodes 9

9 Weld assessment 10
9.1 General 10
9.2 Weldability tests 10
9.3 Production tests 10
9.4 Frequency of testing 10

10 Weld quality requirements 11
10.1 Weld diameter 11
10.2 Weld penetration and indentation 11
10.3 Failure description of welds 11
10.4 Tensile shear strength 11
10.5 Weld appearance 12
10.5.1 Surface condition 12
10.5.2 Distortion 12

11 Multi-weld arrays 13

Annex A (informative) Recommendations for spot welding equipment 15

Annex B (informative) Typical spot welding conditions 16

Annex C (informative) Partial list of steel types applicable to this International Standard 18

Bibliography 19