ISO 14373:2015-03 (E)

Resistance welding - Procedure for spot welding of uncoated and coated low carbon steels

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 2

4 Symbols and abbreviated terms 2

5 Materials 3
5.1 Form 3
5.2 Steel grades 3

6 Surface conditions 3

7 Edge conditions, form of component, and weld spacing 3

8 Electrodes 3
8.1 Materials 3
8.2 Dimensions 3
8.3 Cooling of electrodes 5

9 Weld assessment 6
9.1 General 6
9.2 Weldability tests 6
9.3 Production tests 6
9.4 Frequency of testing 6

10 Weld quality requirements 7
10.1 Weld diameter 7
10.2 Weld penetration and indentation 7
10.3 Failure description of welds 7
10.4 Tensile shear strength 7
10.5 Weld appearance 8
10.5.1 Surface condition 8
10.5.2 Distortion 8

11 Multi-weld arrays 9

Annex A (informative) Recommendations for spot welding equipment 11

Annex B (informative) Typical spot welding conditions 12

Annex C (informative) Partial list of steel types applicable to this International Standard 14

Bibliography 15