

DIN EN ISO 17662:2016-09 (E)

Welding - Calibration, verification and validation of equipment used for welding, including ancillary activities (ISO 17662:2016)

Contents	Page
European foreword	3
Foreword	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 General requirements	7
4.1 General	7
4.2 Frequency	8
4.3 Requirements	8
4.4 Process data	9
4.5 Material properties	9
5 Process data common to more than one welding/brazing process	9
5.1 Process data common to all welding/brazing processes	9
5.2 Requirements specific to several welding/brazing processes	11
5.3 Requirements specific to arc welding (group 1)	12
6 Metal arc welding without gas protection (group 11)	13
7 Plasma arc welding (group 15)	14
8 Resistance welding (groups 21, 22, 23, 24, and 25)	14
9 Gas welding (group 3)	15
10 Friction welding (group 42)	16
11 Laser beam welding (group 52)	16
12 Electron beam welding (group 51)	18
13 Stud welding (group 78)	19
14 Brazing (group 9)	20
14.1 General	20
14.2 Manual and mechanized flame brazing (group 912)	21
14.3 Induction brazing (group 916)	21
14.4 Resistance brazing (group 918)	21
14.5 Furnace brazing in protective atmosphere (group 921)	22
14.6 Vacuum brazing (group 922)	23
14.7 Furnace brazing in open atmosphere (group 921)	24
14.8 Dip-bath brazing (group 923), salt-bath brazing (group 924) and flux-bath brazing (group 925)	25
14.9 Infrared brazing (group 941)	26
15 Preheat and/or post weld heat treatment	26
15.1 Preheat	26
15.2 Post weld heat treatment	27
16 Post weld cleaning	28
17 Flame cutting (group 81) and other ancillary processes	28
Annex A (informative) Details for stud welding	29
Annex B (informative) Acceptance testing of equipment	30
Annex C (informative) Parties involved	31
Bibliography	32