

ISO 17662:2016-03 (E)

Welding - Calibration, verification and validation of equipment used for welding, including ancillary activities

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

16	Post weld cleaning	24
17	Flame cutting (group 81) and other ancillary processes	24
	Annex A (informative) Details for stud welding	25
	Annex B (informative) Acceptance testing of equipment	26
	Annex C (informative) Parties involved	27
	Bibliography	28