

DIN EN ISO 18563-2:2017-12 (E)

Non-destructive testing - Characterization and verification of ultrasonic phased array equipment - Part 2: Probes (ISO 18563-2:2017)

Contents

Page

European foreword	3
Foreword	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Symbols	6
5 General compliance	6
6 Technical information for phased array probes	6
7 Test equipment	8
7.1 Electronic equipment	8
7.2 Test blocks and other equipment	8
7.2.1 General	8
7.2.2 Contact technique	8
7.2.3 Immersion technique	8
8 Performance tests for phased array probes	8
8.1 General	8
8.2 Physical aspects	9
8.2.1 Method	9
8.2.2 Acceptance criterion	9
8.3 Relative pulse-echo sensitivity variation	9
8.3.1 General	9
8.3.2 Method	9
8.3.3 Acceptance criteria	9
8.4 Frequency, bandwidth and pulse duration	10
8.4.1 General	10
8.4.2 Method	10
8.4.3 Acceptance criteria	10
8.5 Probe sensitivity	11
8.5.1 General	11
8.5.2 Method	11
8.5.3 Acceptance criteria	11
8.6 Inter-element cross-talk (optional)	11
8.6.1 General	11
8.6.2 Method	11
8.6.3 Acceptance criterion	12
8.7 Number of elements "out of specification"	12
8.7.1 General	12
8.7.2 Method	12
8.7.3 Acceptance criteria	12
Bibliography	13