

ISO 4773:2023-10 (E)

Non-destructive testing - Ultrasonic guided-wave testing using the phased-array technique

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Personnel requirements	1
5 Principles of phased-array guided-wave testing	2
6 Test equipment	2
6.1 General.....	2
6.2 Test instrument.....	3
6.3 Probe.....	3
6.4 Environmental requirements.....	3
7 Periodical check of the test equipment	4
7.1 Periodical check of the instrument.....	4
7.2 Periodical check of probe.....	4
7.3 Check of the complete system setting.....	4
7.4 Recording level.....	4
8 Test procedure	4
8.1 General.....	4
8.2 Pre-requisites for object.....	5
8.3 Setting of the equipment.....	5
8.3.1 Coating removal process for probe setup.....	5
8.3.2 Setting of sensitivity and range.....	5
8.3.3 Setting of DAC and TCG.....	6
8.4 Classification of signals.....	6
8.5 Periodical check of settings.....	7
8.6 Performing the test.....	7
9 Evaluating the test results	8
9.1 General.....	8
9.2 Procedure.....	8
10 Test report	8
Annex A (normative) Checklist for the testing with ultrasonic guided-waves	10
Bibliography	18