

DIN EN 17290:2021-12 (E)

Non-destructive testing - Ultrasonic testing - Examination for loss of thickness due to erosion and/or corrosion using the TOFD technique

Contents	Page
European foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	5
4 General specifications	5
4.1 General	5
4.2 Limits of the test technique	5
5 Qualification of personnel	5
6 Test equipment	5
6.1 Instrument	5
6.2 Probes and TOFD set-up	5
6.3 Encoder	6
6.4 Combined equipment	6
6.5 Reference blocks	6
6.6 Couplant	6
7 Application of the technique	6
7.1 Surface condition	6
7.2 Temperature	6
7.3 Marking	6
7.4 Selection of probes and PCS	7
7.5 Instrument settings	8
7.6 Testing	9
8 Interpretation and analysis of TOFD images	10
8.1 Validation of TOFD images	10
8.2 Relevant indications	10
8.3 Determination of dimensions and location	11
9 Test report	15
Annex A (informative) Example of a reference block	17
Annex B (informative) Examples of typical TOFD images of loss of thickness due to erosion and/or corrosion	19
Bibliography	22