

ISO 20669:2017-03 (E)

Non-destructive testing - Pulsed eddy current testing of ferromagnetic metallic components

Contents	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General principles	2
4.1 Principles of PEC testing	2
4.2 Characteristics of PEC testing	4
4.2.1 Advantages	4
4.2.2 Limitations	4
4.3 Influence factors	5
4.3.1 Coating	5
4.3.2 Tested component	5
4.3.3 Temperature	5
4.3.4 Probe	5
4.3.5 Reference zone	5
4.3.6 Other factors	5
5 Qualification of personnel	6
6 Equipment	6
6.1 Testing system	6
6.2 PEC instrument	6
6.3 Probe	6
6.4 Sensitivity adjustment	6
6.5 Test pieces	7
6.5.1 Reference blocks	7
6.5.2 Spacers	8
6.5.3 Metal sheet cover	8
6.6 Maintenance and verification of equipment	8
7 On-site testing	8
7.1 Preparation of documentation	8
7.1.1 Document prerequisites	8
7.1.2 Site investigation	8
7.1.3 Preparation of testing procedure and record sheets	8
7.2 Preparation of the component to be tested	9
7.2.1 Surface preparation	9
7.2.2 Identification	9
7.3 Selection of the references	9
7.3.1 Principles	9
7.3.2 Reselection of references	10
7.3.3 Record of references	10
7.4 Performing test	10
7.5 Safety	10
8 Interpretation and evaluation of test results	10

9	Verification of test results	10
10	Documentation	11
10.1	General	11
10.2	General written testing procedure	11
10.3	Testing record	12
10.4	Testing report	12
	Bibliography	13