

ISO 14916:2017-03 (E)

Thermal spraying - Determination of tensile adhesive strength

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principles	2
5	Equipment for testing and measuring and auxiliary equipment	3
5.1	Test instruments	3
5.2	Measurement instrument	3
5.3	Specimen fixing device for bonding of the tensile adhesive specimen	4
6	Specimens	4
6.1	Shape of specimens	4
6.2	Material of the specimen	6
6.3	Preparing the substrate and loading blocks	6
6.4	Preparing and spraying of the specimen	8
6.5	Manufacture of the specimens for tensile testing	9
6.5.1	Machining of the coated substrate block (or test disc) and preparation for bonding	9
6.5.2	Gluing the specimen	9
6.5.3	Bonding agent	9
6.6	Reference specimen	10
6.7	Number of specimens to be tested	10
7	Applying the testing	10
8	Measurement readings and evaluation	11
9	Test report -- Documentation	12
10	Possible sources of fault when preparing the specimens and on testing	13
Annex A (informative)	Work instructions for gluing	14
Annex B (informative)	Recommendations for further auxiliary equipment	17
Annex C (informative)	Function areas on the tensile adhesive specimen and possibilities of fracture locations according to ASTM C633-13	21
Annex D (informative)	Record for the applied tensile adhesive test according to this document	22
Bibliography		26