

DIN EN ISO 10308:2006-04 (E)

Metallic coatings - Review of porosity tests (ISO 10308:2006)

Contents		Page
Foreword		2
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Principle	5
5	Common features of porosity tests	5
6	Test specimens	5
7	Specific porosity tests	5
7.1	Alizarin test	5
7.2	Anthraquinone test	6
7.3	Cadmium sulfide test	6
7.4	Copper sulfate (Preece) test	6
7.5	Copper sulfate (Dupernell) test	6
7.6	Corrodkote test (CORR)	7
7.7	Electrographic tests	7
7.8	Ferrocyanide test	8
7.9	Ferron test	8
7.10	Ferroxyl test	9
7.11	Flowers-of-sulfur porosity test	9
7.12	Hot-water test	9
7.13	Hydrogen sulfide or sulfur dioxide/hydrogen sulfide test	9
7.14	Haematoxylin test	10
7.15	Magneson test	10
7.16	Nitric acid vapour test	10
7.17	Oxine test	11
7.18	Permanganate test	11
7.19	Polysulfide test	11
7.20	Porotest test	11
7.21	Salt spray tests [neutral (NSS), acetic (AASS) and cuproacetic (CASS)]	12
7.22	Sulfur dioxide test	12
7.23	Sulfurous acid/sulfur dioxide vapour test	12
7.24	Thiocyanate test	12
7.25	Thioacetamide test (TAA)	13
7.26	Watch-case acetic acid test	13
7.27	Watch-case sodium bisulfite test	13
Annex A (normative)	Tables of porosity tests	14
Annex B (informative)	Typical report and evaluation of porosity tests	17
Annex C (informative)	Schematic representation of types of pore	19
Annex D (informative)	Classification of discontinuities in metallic and other inorganic coatings	20
Annex E (informative)	Classification of methods of testing coating porosity	21

Annex F (informative) Alphabetical list of tests by substrate and coating	22
Bibliography	33