

ISO 13129:2012-10 (E)

Paints and varnishes - Electrochemical measurement of the protection provided to steel by paint coatings - Current interrupter (CI) technique, relaxation voltammetry (RV) technique and DC transient (DCT) measurements

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Apparatus	2
4.1	Faraday cage	2
4.2	Cell for sample, including electrode holder	2
4.3	Galvanostat	3
4.4	Potentiostat	3
4.5	Electrodes	3
4.6	Electrolyte	4
5	Specimens	4
5.1	Preconditioning of specimens	4
5.2	Environmental control	4
5.3	Evaluation of specimens exposed to weathering in the laboratory and in the field	4
5.4	Number of specimens and repeatability of results	5
6	Experimental procedure	5
6.1	General	5
6.2	Current interrupter technique	5
6.3	Relaxation voltammetry	6
6.4	DC transient measurements	7
7	Expression of results	8
8	Precision	8
9	Test report	8
Annex A (normative)	Description of the dummy cell	10
Annex B (informative)	Further considerations concerning measurements on coatings	12
Annex C (informative)	Examples of results	14
Bibliography		15