
Barve in laki - Elektrokemijske meritve zaščitnih lastnosti barvnih premazov jekla - Tehnika s prekinjanjem toka (CI), relaksacijsko voltametrij (RV) in meritve z enosmernim prehodnim tokom (DCT) (ISO 13129:2012)

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 (ISO 13129:2012)

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Beschichtungsstoffe - Elektrochemische Messung der Schutzwirkung von Beschichtungen auf Stahl - Stromunterbrechungsverfahren (CI), Relaxationsvoltammetrie (RV) und Gleichstromtransientenmessung (DCT) (ISO 13129:2012)

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Peintures et vernis - Mesurage électrochimique de la protection apportée à l'acier par des revêtements de peinture - Technique du courant interrompu (CI), voltamétrie de relaxation (VR) et mesurages de courants continus transitoires (CCT) (ISO 13129:2012)

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Barve in laki

Paints and varnishes

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This European Standard was approved by CEN on 1 September 2012

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Foreword

This document (EN ISO 13129:2012) has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" in collaboration with Technical Committee CEN/TC 139 "Paints and varnishes" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2013, and conflicting national standards shall be withdrawn at the latest by June 2013.

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ISO 13129:2012(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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ISO 13129 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

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Introduction

Quantitative assessment of protection performance of organic coatings has been required in industry, for example for evaluating the durability of organic coatings or judging the life of protective coatings. Electrochemical methods can be used for these purposes. The current interrupter (CI) technique, relaxation voltammetry (RV) and DC transient (DCT) measurements are simple techniques giving effective data which are comparable with electrochemical impedance spectroscopy (EIS) in principle.

An advantage is that the principle is simple and time for one measurement is short.

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