

საქართველოს სტანდარტი

სსკ: 87.020

საღებავები და ლაქები - ფოლადის კონსტრუქციების კოროზიისგან დაცვა
დამცავი საღებავის სისტემებით - ნაწილი 6: ლაბორატორიული
მახასიათებლების გამოცდის მეთოდები

საინფორმაციო მონაცემები

1 მიღებულია და დაშვებულია გამოქმედდეს: სსიპ-საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს გენერალური დირექტორის 05/09/2022 წლის № 62 განკარგულებით

2 მიღებულია „თავფურცლის“ თარგმნის მეთოდით: სტანდარტიზაციის საერთაშორისო ორგანიზაციის (ისო) სტანდარტი ისო 12944-6:2018 „საღებავები და ლაქები - ფოლადის კონსტრუქციების კოროზიისგან დაცვა დამცავი საღებავის სისტემებით - ნაწილი 6: ლაბორატორიული მახასიათებლების გამოცდის მეთოდები“

3 ნაცვლად:

4 რეგისტრირებულია: სსიპ-საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 05/09/2022 წლის №268-1.3-027373

წინამდებარე სტანდარტის ნებისმიერი ფორმით გავრცელება სააგენტოს ნებართვის გარეშე აკრძალულია

**Paints and varnishes — Corrosion
protection of steel structures by
protective paint systems —**

**Part 6:
Laboratory performance test methods**

*Peintures et vernis — Anticorrosion des structures en acier par
systèmes de peinture —*

Partie 6: Essais de performance en laboratoire





COPYRIGHT PROTECTED DOCUMENT

© ISO 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 General	3
4.1 Relationship between artificial ageing and natural exposure.....	3
4.2 Additional performance tests.....	3
5 Tests	3
5.1 Test panels.....	3
5.1.1 Carbon steel.....	3
5.1.2 Hot dip galvanized steel.....	3
5.1.3 Thermal-sprayed metallic coatings.....	4
5.2 Sampling of paints.....	4
5.3 Number of test panels.....	4
5.4 Paint systems.....	4
5.5 Reference system.....	4
5.6 Test procedures and duration.....	4
6 Paint system assessment	6
6.1 General.....	6
6.2 Assessment before artificial ageing.....	6
6.3 Assessment after artificial ageing for the specified time.....	6
7 Test report	7
Annex A (normative) Scribe line for ISO 9227 test and ISO 12944-9 cyclic ageing test	9
Annex B (normative) Cyclic ageing test	11
Bibliography	12

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 14, *Protective paint systems for steel structures*.

This second edition cancels and replaces the first edition (ISO 12944-6:1998), which has been technically revised.

The main changes compared to the previous edition are as follows:

- the normative references have been updated;
- the terms and definitions have been revised;
- [4.2](#) “Additional performance tests” has been revised and the Note deleted;
- [5.1](#) “Test panels” has been revised;
- [5.4](#) “Paint systems” has been revised and requirements for maximum film thickness added;
- [5.6](#) “Test procedures and duration” has been revised and includes a revised [Table 1](#);
- [Table 1](#) “Test procedures for paint systems applied to carbon steel, hot dip galvanized steel or steel with thermal-sprayed metallic coating” has been divided into two separate tables, one containing categories C1 to C5 and one containing categories Im1 to Im3;
- the former [Table 2](#) has been deleted;
- [Clause 6](#) “Paint system assessment” has been revised;
- in [6.2](#) a new [Table 3](#) “Assessment before artificial ageing” has been included;
- in [6.3](#) a new [Table 4](#) “Assessment after artificial ageing for the specified time” has been included;
- in [Clause 7](#) “Test report” the following items were added: “photographic documents [...]”, “thickness of zinc layer [...]”, and “thickness of the thermal-sprayed metallic coating [...]”;

- [Annex A](#) has been revised and [Figures A.1](#) and [A.2](#) have been added;
- a new normative [Annex B](#) “Cyclic ageing test” has been added;
- the former [Annex B](#) has been deleted;
- a Bibliography has been added;
- the text has been editorially revised.

A list of all parts in the ISO 12944 series can be found on the ISO website.