

**Anodizing of aluminium and its alloys - Rating system
for the evaluation of pitting corrosion - Grid method (ISO
8994:2011)**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 8994:2011 sisaldab Euroopa standardi EN ISO 8994:2011 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.03.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 01.03.2011.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 8994:2011 consists of the English text of the European standard EN ISO 8994:2011.

This standard is ratified with the order of Estonian Centre for Standardisation dated 31.03.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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English Version

Anodizing of aluminium and its alloys - Rating system for the
evaluation of pitting corrosion - Grid method (ISO 8994:2011)

Anodisation de l'aluminium et de ses alliages - Système de
cotation de la corrosion par piqûres - Méthode par
quadrillage (ISO 8994:2011)

Anodisieren von Aluminium und Aluminiumlegierungen -
Bewertungssystem für Lochkorrosion - Rasterzählmethode
(ISO 8994:2011)

This European Standard was approved by CEN on 28 February 2011.

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Foreword

This document (EN ISO 8994:2011) has been prepared by Technical Committee ISO/TC 79 "Light metals and their alloys" in collaboration with Technical Committee CEN/TC 132 "Aluminium and aluminium alloys" the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by September 2011, and conflicting national standards shall be withdrawn at the latest by September 2011.

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Endorsement notice

The text of ISO 8994:2011 has been approved by CEN as a EN ISO 8994:2011 without any modification.

Anodizing of aluminium and its alloys — Rating system for the evaluation of pitting corrosion — Grid method

1 Scope

This International Standard specifies a grid rating system that provides a means of defining levels of performance of anodic oxidation coatings on aluminium and its alloys that have been subjected to corrosion tests.

This rating system is applicable to pitting corrosion resulting from

- accelerated tests,
- exposure to corrosive environments, and
- practical service tests.

This International Standard takes into account only pitting corrosion of the basis metal resulting from penetration of the protective anodic oxidation coating.

NOTE 1 ISO 8993^[3] describes a similar rating system based on defined chart scales.

NOTE 2 The grid rating system is frequently used for rating the results of short-term corrosion tests for relatively thin anodic oxidation coating, such as those used in the automotive industry.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

significant surface

part of the article covered or to be covered by the coating, for which the coating is essential for serviceability and/or appearance

NOTE 1 Adapted from ISO 2064:1996^[1], definition 3.1.

NOTE 2 The edges of an article are not normally included in the significant surface.

2.2

corrosion pit

surface corrosion defect at which the anodic oxidation coating is penetrated

NOTE Discoloration or other surface defects which do not penetrate the anodic coating do not count as corrosion pits.