
**Anodizing of aluminium and its
alloys — Assessment of quality of
sealed anodic oxidation coatings by
measurement of admittance**

*Anodisation de l'aluminium et de ses alliages — Évaluation de
la qualité des couches anodiques colmatées par mesurage de
l'admittance*

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Foreword

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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).

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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 79, *Light metals and their alloys*, Subcommittee SC 2, *Organic and anodic oxidation coatings on aluminium*.

This fourth edition cancels and replaces the third edition (ISO 2931:2010), which has been technically revised.

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

- the content of [Clause 6](#), now entitled “Test specimen”, has been revised.

Introduction

The test described in this document is intended to give a quick, non-destructive assessment of the quality of sealed anodic oxidation coatings and is very suitable for routine production control. It is carried out following sealing and before any other supplementary process is undertaken, for example, oiling, waxing or lacquering.

The correlation of the results obtained with those of other tests that can assess sealing quality such as that of ISO 2143 can be affected by the presence of sealing additives or contaminants such as silicate or phosphate. For this reason, the quality is checked from time to time by one of the reference acid-dissolution methods specified in ISO 3210.

The pre-treatment, the anodizing process, the colouring process used and the alloy can all have an effect on admittance readings.

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