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Vitreous and porcelain enamels — Inside and outside enamelled valves and pressure pipe fittings for untreated and potable water supply — Quality requirements and testing

Émaux vitrifiés — Robinetterie et raccords de tuyauterie pour conduites forcées émaillés à l'intérieur et à l'extérieur destinés à l'alimentation en eau non traitée et en eau potable — Exigences de qualité et essais

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

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Contents

Page

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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This document was prepared by Technical Committee ISO/TC 107, *Metallic and other inorganic coatings*.

This second edition cancels and replaces the first edition (ISO 11177:2016), which has been technically revised. The following change has been made:

— in 5.6, the normative reference has been changed from ISO 28706-2 to ISO 28706-1:2008, Clause 9, “Class AA”.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The requirements defined in this document regarding the product quality of enamelled valves and pressure pipe fittings for untreated and potable water supply take into account the real stress conditions to which a component can be subjected in the course of its operating life. Typical types of stress are

— during storage: climate, UV radiation, mechanical stress,

— during transportation: mechanical stress, e.g. at certain points (impact), laterally (friction),

— during preparation for installation: cleaning agents, mechanical stress, e.g. at certain points (impact), laterally (friction),

— during installation: mechanical stress, and

— during operation: abrasion caused by the carried medium, corrosion from surrounding medium, mechanical stress from shifting ground loads, UV radiation with valves built in above ground.