

Metallic coatings — Physical vapour-deposited coatings of aluminium — Specification and test methods

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National foreword

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A list of organizations represented on STI/33 can be obtained on request to its secretary.

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Foreword

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ISO 22779 was prepared by Technical Committee ISO/TC 107, *Metallic and other inorganic coatings*, Subcommittee SC 3, *Electrodeposited coatings and related finishes*.

Introduction

Aluminium coatings may be applied to a variety of substrates by physical vapour-deposition techniques to improve resistance to corrosion, as an alternative to cadmium, and to provide dissimilar metal compatibility. The vapour-deposition process does not introduce hydrogen into the substrate and is, thus, especially useful for applying a corrosion-resistant aluminium coating to high-strength steels that are susceptible to hydrogen embrittlement. Hydrogen, however, may still be introduced into the substrate during fabrication, cleaning, pickling and other treatments, and care must be exercised to prevent hydrogen from being introduced prior to vapour deposition.

The corrosion resistance of physical vapour-deposited aluminium coated articles may be further enhanced by applying chromate conversion coatings, anodizing and other supplementary treatments.

