



AEROSPACE MATERIAL SPECIFICATION

AMS03-3

REV. A

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Superseding AMS03-3

Protection of Aluminum Alloys by Sprayed Metal Coatings

RATIONALE

AMS03-3A stabilizes this document because this document contains mature technology that is not expected to change and thus no further revisions are anticipated.

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FOREWORD

REVISION NOTE

This Defence Standard was raised to Issue 5 to update its content and incorporate the latest MoD/DStan policy in place at the time.

HISTORICAL RECORD

This standard supersedes the following:

Def Stan 03-3 / Issue 1 dated 28 December 1970

Def Stan 03-3 / Issue 2 dated 24 February 1995

Def Stan 03-3 / Issue 3 dated 24 May 2002

Def Stan 03-3 / Issue 4 dated 22 January 2008

INTRODUCTION

In certain environments some high-strength aluminum alloys are more susceptible to surface corrosion, stress-corrosion or exfoliation corrosion than pure aluminum. The application of an adherent coating of pure aluminum, pure zinc, or certain alloys of these metals, will provide corrosion protection to the basis metal by exclusion of the corrosive environment and/or by sacrificial corrosion of the coating metal. The particular coating to be used shall be defined on the relevant drawing or contract but care must be taken in the choice of the most suitable coating for a particular alloy in a given set of conditions.