Second edition
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Welding for aerospace applications — Qualification test for welders and welding operators — Fusion welding of metallic components

Soudage pour applications aérospatiales — Épreuve de qualification pour soudeurs et opérateurs — Soudage par fusion des composants métalliques

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Foreword

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This document was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 14, *Welding and brazing in aerospace*.

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This second edition cancels and replaces the first edition (ISO 24394:2008). It also incorporates the Amendment ISO 24394:2008/Amd 1:2012. The main changes compared to the previous edition are:

— the terms welding equipment operator and automatic welding have been introduced as 3.4 and 3.12;

— old subclause 4.1.3 has been moved to 4.1;

— requirements in 4.4 have been refined;

— Tables 1 to 4 have been created to present the ranges of qualification for welding positions for every test piece;

— in 4.5, material group F has been introduced;

— the header of 4.6 has been changed and new subclause 4.6.3 has been created;

— in 4.6.1 and 4.6.2, the qualification of thickness ranges has been clarified;

— requirements in 5.1 have been changed;

— a bullet list has been added to 6.1.1;

— in 6.2, a new requirement has been introduced that the theory test shall be documented;

— references to EN 462 series for radiographic images have been deleted;

— Clause 9 has been reworded to clearly state that only the features created by welding shall be assessed for TP6;

— Clause 10 has been changed so that if a welder/welding operator needs vision correction, it shall be noted on the test certificate;

— in Tables A.1 to A.4, new material group F has been included;

— the document has been editorially revised.

Introduction

A welder or welding operator qualification test properly passed in accordance with this document demonstrates that the welder or welding operator concerned has been proved to possess the minimum degree of skill and knowledge required for the fusion welding of aerospace hardware.