

BS ISO 7257:2016



BSI Standards Publication

Aircraft — Hydraulic tubing joints and fittings — Rotary flexure test

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National foreword

This British Standard is the UK implementation of ISO 7257:2016. It supersedes BS M 55:1984 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ACE/69, Aerospace hydraulic systems, fluids and components.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Aircraft — Hydraulic tubing joints and fittings — Rotary flexure test

Aéronautique — Joints et raccords pour tubes hydrauliques — Essai de flexion rotative



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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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The committee responsible for this document is ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 10, *Aerospace fluid systems and components*.

This second edition cancels and replaces the first edition (ISO 7257:1983), which has been technically revised to add imperial unit equivalents, three DN sizes, and for additional clarifications.

Introduction

This International Standard describes a flexure fatigue test procedure which allows evaluation of various tube fitting designs or material combinations. This evaluation is performed by fatigue testing the tube joints over a spectrum of bending stresses and then plotting the cycles to failure. Other test methods may be used as long as they develop the same data as the rotary flexure test.

