

BS 5N 100-2:2018



BSI Standards Publication

Aircraft oxygen systems and equipment

Part 2: Tests for the compatibility of materials in the presence of oxygen

Publishing and copyright information

The BSI copyright notice displayed in this document indicates when the document was last issued.

© The British Standards Institution 2018

Published by BSI Standards Limited 2018

ISBN 978 0 539 01063 3

ICS 49.090

The following BSI references relate to the work on this document:

Committee reference ACE/38

Draft for comment 18/30377908 DC

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

Contents

Page

	Foreword	ii
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	General	2
	<i>Table 1 — Determination of maximum working pressure</i>	3
	<i>Figure 0 — Detail of striker pin</i>	4
	<i>Figure 1 — Liquid oxygen impact machine</i>	6
5	New bomb test criteria	7
	<i>Figure 2 — New bomb test containment vessel assembly</i>	8
	<i>Figure 3 — New bomb test combustion vessel</i>	9
6	New bomb test	9
	<i>Figure 4 — System diagram</i>	12
	<i>Table 2 — Specific SIT of a common fluoroelastomer at an oxygen pressure of 13.2 MPa</i>	16
	<i>Figure 5 — Typical temperature versus time plot for a common fluorescent</i>	16
7	Treatment of results from the new bomb test	16
	<i>Table 3 — Maximum working pressures for different categories of materials</i>	17
8	Acceptable alternative bomb test methods	17
	<i>Table 4 — Maximum working pressures for different categories of materials when using acceptable alternative bomb test methods</i>	19
Annex A	(normative) Form 1: Non-metallic material for oxygen bomb testing in accordance with BS 5N 100-2:2018	20
	<i>Figure A.1 — Form 1</i>	20
	Bibliography	21

Summary of pages

This document comprises a front cover, an inside front cover, pages i to ii, pages 1 to 21, an inside back cover and a back cover.