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Interested committees:

Title: Draft BS EN 3207 - Aerospace series - Rubber compounds - Technical specification

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Introduction

This draft standard is based on European discussions in which the UK has taken an active part. Your comments on this draft are welcome and will assist in the preparation of the consequent British Standard. Comment is particularly welcome on national, legislative or similar deviations that may be necessary.

Even if this draft standard is not approved by the UK, if it receives the necessary support in Europe, the UK will be obliged to publish the official English Language text unchanged as a British Standard and to withdraw any conflicting standard.

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Please indicate whether you consider the UK should submit a negative (with reasons) or positive vote on this draft.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	(7)
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/ Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

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Aerospace series — Rubber compounds — Technical specification		
Luft- und Raumfahrt — Kautschukmischungen — Technische Lieferbedingungen		Série aéronautique — Matériaux caoutchouc — Spécification technique
This "Aerospace Series" Prestandard has been drawn up under the responsibility of ASD-STAN (The Aerospace and Defence Industries Association of Europe- Standardization). It is published on green paper for the needs of the European Aerospace and Defence Industry. It has been technically approved by the experts of the concerned Domain following member comments. Subsequent to the publication of this Prestandard, the technical content shall not be changed to an extent that interchangeability is affected, physically or functionally, without re-identification of the standard. After examination and review by users and formal agreement of ASD-STAN it will be submitted as a draft European Standard to CEN (European Committee for Standardization) for formal vote.		
Edition approved for publication	Comments should be sent within six months after the date of publication to ASD-STAN	

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Foreword

This standard was reviewed by the Domain Technical Coordinator of ASD-STAN's Metallic Material Domain.

After inquiries and votes carried out in accordance with the rules of ASD-STAN defined in ASD-STAN's General Process Manual, this standard has received approval for Publication.

1 Scope

This standard specifies the requirements for the qualification and batch acceptance of rubber compounds intended for the manufacture of aerospace parts.

2 Normative references

The following referenced documents are essential for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 60243-1, *Electric strength of insulating materials — Test methods — Part 1: Tests at power frequencies*

EN ISO 9001, *Quality management systems — Requirements*

ISO 34-1, *Rubber, vulcanized or thermoplastic — Determination of tear strength — Part 1: Trouser, angle and crescent test pieces*

ISO 37, *Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties*

ISO 48, *Rubber, vulcanized or thermoplastic — Determination of hardness (hardness between 10 IRHD and 100 IRHD)*

ISO 188, *Rubber, vulcanized or thermoplastic — Accelerated ageing and heat resistance tests*

ISO 812, *Rubber, vulcanized or thermoplastic — Determination of low-temperature brittleness*

ISO 815-1, *Vulcanized rubbers — Determination of compression set under constant deflection at normal and high temperatures*

ISO 1431-1, *Rubber, vulcanized or thermoplastic — Resistance to ozone cracking — Part 1: Static and dynamic strain testing*

ISO 1817, *Rubber, vulcanized or thermoplastic — Determination of the effect of liquids*

ISO 2781:2008/Amd 1:2010, *Rubber, vulcanized or thermoplastic — Determination of density*

ISO 2921, *Rubber, vulcanized — Determination of low-temperature retraction (TR test)*

ISO 7619-1, *Rubber, vulcanized or thermoplastic — Determination of indentation hardness — Part 1: Durometer method (Shore hardness)*

ISO 23529, *Rubber — General procedures for preparing and conditioning specimens for physical test methods*

EN ISO/CEI 17025, *General requirements for the competence of testing and calibration laboratories*

NF C 26-230/CEI 60250, *Recommended methods for the determination of the permittivity and dielectric dissipation factor of electrical insulating materials at power, audio and radio frequencies including metre wavelengths*

3 Terms and definitions

For the purposes of this document, the terms and definitions following apply.

3.1

Manufacturer

the manufacturer of a product is the natural or legal person who has mastery of the design of this product and the quality of each item or product sample

3.2

established manufacturer

manufacturer with clearly defined status, who has been involved in the production of rubber compounds for the aeronautical industry for several years in the same production facilities, in accordance with EN European standards, national standards or specifications dedicated to the aerospace industry recognized equivalent to the EN and having obtained significant statistical results for the properties of these rubber compounds.

NOTE The established manufacturer holds at least a formal approval for his quality management system granted by an approved sub-tier or sub-sub-tier (e.g. in accordance with EN ISO 9001 or relevant European/national standards).

3.3

new manufacturer

manufacturer who is not yet manufacturing rubber compounds for the aerospace industry

3.4

rubber compound

homogeneous rubber compound of all the rubber formulation compounds (e.g. raw gum or rubber, vulcanizing agents, accelerators, fillers...)

3.5

production batch (of rubber compound)

quantity of rubber compound of definite composition, identifiable and traceable manufactured in a single production operation

3.6

established rubber compound

rubber compound produced by an established manufacturer

3.7

new rubber compound

rubber compound that has never been manufactured by an established or new manufacturer, in accordance with EN European standards, national standards or specifications specific to the aeronautical industry accepted as an alternative to EN

3.8

certified laboratory:

laboratory in compliance with EN ISO/CEI 17025 standard

4 Quality assurance of rubber compounds

4.1 Agreement of manufacturer quality system

The manufacturer shall be the holder of a valid agreement for his quality system, in accordance with EN ISO 9001 or corresponding European/national standards.

4.2 Qualification of new rubber compounds

It shall be carried out by a laboratory in compliance with EN ISO/CEI 17025 standard.

The supplier shall provide three production batches.