



BSI Standards Publication

Rubber — Determination of metal content by atomic absorption spectrometry

Part 5: Determination of iron content

National foreword

This British Standard is the UK implementation of ISO 6101-5:2018. It supersedes [BS ISO 6101-5:2006](#), which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PRI/22, Testing and analysis of rubber.

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

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Rubber — Determination of metal content by atomic absorption spectrometry —

Part 5: Determination of iron content

*Caoutchouc — Dosage du métal par spectrométrie
d'absorption atomique —*

Partie 5: Dosage du fer





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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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This document was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 2, *Testing and analysis*.

This third edition cancels and replaces the second edition ([ISO 6101-5:2006](http://www.iso.org/iso/6101-5:2006)), which has been technically revised as follows:

- nitric acid has been added as a digestion acid;
- the concentration for sulphuric acid has been specified;
- the procedure for the destruction of organic matter has been further detailed;
- the volume for final solution following dissolution using hydrochloric acid ([8.2.2](#)) has been changed to 50 cm³ to ensure consistency of the formulae used throughout the ISO 6101 series;
- [Formulae 1](#) and [2](#) in [Clause 9](#) have been corrected for the iron content expressed as percentage by mass and milligram per kilogram, respectively;
- [Annex A](#) and [Annex B](#) have been added to include method of standard addition and precision statement of the method.

A list of all parts in the ISO 6101 series can be found on the ISO website.