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Fourth edition  
2010-03-15

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# Rubber compounding ingredients — Silica, precipitated, hydrated —

## Part 1: Non-rubber tests

*Ingrédients de mélange du caoutchouc — Silices hydratées  
précipitées —*

*Partie 1: Essais sur le produit brut*



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 5794-1 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 3, *Raw materials (including latex) for use in the rubber industry*.

This fourth edition cancels and replaces the third edition (ISO 5794-1:2005), of which it constitutes a minor revision comprising the following changes:

- the distilled or deionized water used for the tests has been replaced throughout the document by grade 3 water as defined in ISO 3696;
- the way in which the silica content is calculated (see Table 1) has been simplified;
- for the sieve specified in F.3.2, an alternative sieve height (45 mm) has been included in addition to the sieve height of 25 mm originally specified.

This fourth edition also incorporates the Technical Corrigenda ISO 5794-1:2005/Cor.1:2006 and ISO 5794-1:2005/Cor.2:2007.

ISO 5794 consists of the following parts, under the general title *Rubber compounding ingredients — Silica, precipitated, hydrated*:

- *Part 1: Non-rubber tests*
- *Part 2: Evaluation procedures in styrene-butadiene rubber*