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Natural rubber latex concentrate, evaporated, preserved — Specification

*Latex concentré de caoutchouc naturel évaporé, préservé —
Spécifications*



Reference number
ISO 2027:1990(E)

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 2027 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*.

This third edition cancels and replaces the second edition (ISO 2027:1978), of which it constitutes a minor revision.

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1 Scope

This International Standard gives specifications for natural rubber latex concentrate which has been concentrated by evaporation. It does not apply to natural rubber latex concentrates which have been concentrated by centrifuging or creaming, or to latices from natural sources other than *Hevea brasiliensis*, or to compounded latex or vulcanized latex.

This International Standard covers requirements for evaporated natural rubber latex concentrates of the following types:

NR latex, type HA evaporated: Evaporated latex concentrate preserved with ammonia only or with ammonia together with other preservative(s), with an alkalinity of at least 0,60 % (m/m) with respect to the latex.

NR latex, type KHS evaporated: Evaporated latex concentrate preserved with potassium hydroxide and having a nominal total solids content of 73 % (m/m).

NR latex, type KLS evaporated: Evaporated latex concentrate preserved with potassium hydroxide and having a nominal total solids content of 68 % (m/m).

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 35:1989, *Natural rubber latex concentrate — Determination of mechanical stability.*

ISO 123:1985, *Rubber latex — Sampling.*

ISO 124:1985, *Rubber latices — Determination of total solids content.*

ISO 125:1990, *Natural rubber latex concentrate — Determination of alkalinity.*

ISO 126:1989, *Natural rubber latex concentrate — Determination of dry rubber content.*

ISO 506:1985, *Natural rubber latex concentrate — Determination of volatile fatty acid number.*

ISO 706:1985, *Rubber latex — Determination of coagulum content (sieve residue).*

ISO 2005:1985, *Natural rubber latex concentrate — Determination of sludge content.*

ISO 7780:1987, *Rubbers and rubber latices — Determination of manganese content — Sodium periodate photometric methods.*

ISO 8053:1986, *Rubber and latex — Determination of copper content — Photometric method.*

3 Requirements

The latex concentrate shall conform to the requirements given in table 1.

In the case of NR latex concentrate, type HA evaporated, the chemical nature and approximate quantity of any preservative(s) other than ammonia shall be stated. NR latex concentrate, type HA evaporated, shall not contain fixed alkali added at any stage in its production.