International Standard

ISO 16959

Natural rubber latex concentrate — Determination of zinc oxide viscosity (ZOV)

Concentré de latex de caoutchouc naturel — Détermination de la viscosité de l'oxyde de zinc (ZOV)

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Foreword

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This document 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*.

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Natural rubber latex concentrate — Determination of zinc oxide viscosity (ZOV)

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1 Scope

This document specifies a method for determining the zinc oxide viscosity of natural rubber latex concentrate.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO 123, *Rubber latex — Sampling*

ISO 124, *Latex, rubber — Determination of total solids content*

ISO 976, *Rubber and plastics — Polymer dispersions and rubber latices — Determination of pH*

ISO 1652, *Rubber latex — Determination of apparent viscosity by the Brookfield test method*

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
zinc oxide viscosity
ZOV
change in viscosity of latex concentrate when treated with zinc oxide in the presence of stabilising and gelling agents under a standard test condition

4 Principle

A test portion is treated with potassium oleate and ammonium sulphate and tested for viscosity at a prescribed interval of time after the addition of zinc oxide.

5 Reagents

Use only reagents of recognized analytical reagent quality and carbonate-free distilled water or water of equivalent purity.

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