



**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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Contents

	Page
Foreword.....	iv
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	1
4 Principle.....	1
5 Reagents.....	1
6 Apparatus.....	2
7 Sampling.....	2
8 Procedure.....	2
9 Expression of results.....	3
10 Precision.....	3
11 Test report.....	3
Annex A (informative) Precision.....	5
Bibliography.....	7

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*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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

WARNING — Persons using this document should be familiar with normal laboratory practice. This document does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to determine the applicability of regulatory limitations prior to use.

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.