

SRI LANKA STANDARD 1245 : 2003
UDC 678.031

**METROLAC CHART FOR NATURAL
RUBBER LATEX**

SRI LANKA STANDARDS INSTITUTION

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SLS 1245 : 2003

Gr. 3

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FOREWORD

This Standard was approved by the Sectoral Committee on Chemical and Polymer Technology and was authorized for adoption and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standards Institution on 2003-03-24.

The metrolac/latexometer is a special type of hydrometer, which is used to measure the density of natural rubber latex and is graduated in grammes per litre. The assumption underlying the use of the metrolac is that the relationship between the density and the dry rubber content (DRC) of field latex is consistent, irrespective of the source and dilution of the original latex. The determination of the dry rubber content of latex by the metrolac is important in calculating the amount of rubber present in latex for standardization and the addition of chemicals such as sodium bisulphite, bleaching agent and coagulating acid. The relationship between the density of latex and its DRC may be calculated from a knowledge of the density of rubber and of serum. The values for the density of serum and of rubber are not necessarily constant from one batch of latex to another.

In the preparation of the metrolac chart data pertaining to seasonal variations, age of the tree, clonal population and types of soil have been taken into consideration since these factors may contribute significantly to the metrolac reading.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or an analysis, shall be rounded off in accordance with **CS 102**. The number of significant places retained in the rounded off value shall be the same as that of the specified value in this standard.

1 SCOPE

This standard prescribes the Ready Reckoner Chart (Metrolac chart) readings for latex from which the dry rubber content could be estimated. The formulation of values have been done only for the dilution (1: 2 latex to water). This also prescribes the laboratory method of test for the determination of dry rubber content in latex.

2 REFERENCES

- ISO 126 Latex, rubber, natural concentrate – Determination of dry rubber content
- CS 102 Presentation of numerical values