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SPECIFICATION FOR

SCHOOL CHALKS

(FIRST REVISION)

SRI LANKA STANDARDS INSTITUTION

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SLS 114:1987

Gr. 7

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FOREWORD

This Sri Lanka Standard was authorized for adoption and publication by the Council of the Sri Lanka Standards Institution on 1987-01-07, after the draft, finalized by the Drafting Committee on School Chalk, had been approved by the Chemicals Divisional Committee.

This specification was first published in 1971. After consideration of the present manufacturing practices of chalks in Sri Lanka and being satisfied with the quality of these chalks, the drafting committee concerned decided to amend the limits for moisture content and calcium sulfate content in this revision. A requirement for the content of toxic materials such as lead, arsenic and hexavalent chromium has also been introduced. The sampling scheme has been modified.

All values given in this specification are in SI units.

For the purpose of deciding whether a particular requirement of this specification is complied with, the final value, observed or calculated, expressing the result of a test or 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 specification.

In the preparation of this specification, the assistance derived from the publications of the American National Standards Institute, British Standards Institution, Indian Standards Institution, Singapore Institute of Standards and Industrial Research and South African Bureau of Standards is gratefully acknowledged.

1 SCOPE

This specification prescribes requirements, methods of sampling and tests for moulded, white and coloured chalks of circular or other cross section commonly used for educational purposes.

2 REFERENCES

CS 102 Presentation of numerical values

CS 124 Test sieves

SLS 312 Determination of arsenic

SLS 428 Random sampling methods.

3 REQUIREMENTS

3.1 General requirements

3.1.1 *Materials*

The main raw material shall be calcined mineral gypsum to which other suitable materials required for manufacturing process may be added. This whole shall form a homogeneous mass, free from grit or hard particles and shall not leave more than 1 per cent residue when passed through a 150-μm sieve conforming to **CS 124**.

3.2 Finish

The surface of the chalks shall be smooth, without any depressions or signs of crumbling.

3.3 Writing qualities and freedom from grit

Chalks shall be free from grit, flint or sandy particles and shall be capable of making continuous uniform marks on a blackboard. The marks shall be easily erased with a dry eraser and the chalks shall not scratch the blackboard.

3.4 Colour

Chalks packed in a box shall be white, or coloured or an assortment of six colours distinct from each other when used on a blackboard.

3.5 Toxic substances

3.5.1 Soluble lead content in a chalk when tested by the method prescribed in Appendix **A** shall not be more than 250 mg/kg.

3.5.2 Soluble arsenic content in a chalk when tested by the method prescribed in Appendix **A** shall not be more than 100 mg/kg.

3.5.3 Soluble hexavalent chromium content in a chalk when tested by the method prescribed in Appendix A shall not be more than 100 mg/kg.

3.6 Other requirements

Chalks shall also comply with the requirements given in Table 1, when tested according to the relevant methods given in Column 5 of the table.