

මහජන අදහස් සඳහා ප්‍රමිති කෙටුම්පත
பொதுசனக் கருத்துரைக்கான கட்டளை வரைவு
DRAFT STANDARD FOR PUBLIC COMMENT

(වෙනස්වීමට ඉඩ ඇත. திருத்தத்திற்குட்படக்கூடியது. Liable to alteration)

නිකුත් කළ දිනය
வெளியீட்டுத் திகதி
Date of Issue

} 2023-04-21

අදහස් එවිය යුතු අවසාන දිනය
அபிப்பிராயங்களை தெரிப்பதற்கான இறுதித்திகதி
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Draft amendment No : 04 to SLS 759 : 1986
SRI LANKA STANDARD
SPECIFICATION FOR CHLORINATED LIME (BLEACHING POWDER) AND CALCIUM
HYPOCHLORITE

ක්ලෝරිනීකෘත අළු හුනු (බ්ලීචිං පවුඩර්) සහ කැල්සියම් හයිපොක්ලෝරයිට් සඳහා වන
ශ්‍රී ලංකා ප්‍රමිති පිරිවිතරයට අදාළ
සංශෝධන කෙටුම්පත් අංක 04 (ශ්‍රී ලංකා කෙටුම්පත 759 : 1986)

මෙම කෙටුම්පත ශ්‍රී ලංකා ප්‍රමිතියක් ලෙස නොසැලකිය යුතු මෙන් ම භාවිතා නොකළ යුතු ද වේ.
இவ்வரைவு இலங்கைக் கட்டளையெனக் கருதப்படவோ அன்றிப் பிரயோகிக்கப்படவோ கூடாது
This draft should not be regarded or used as a Sri Lanka Standard.

අදහස් එවිය යුත්තේ : ශ්‍රී ලංකා ප්‍රමිති ආයතනය, 17, වික්ටෝරියා පෙදෙස, ඇල්විටිගල මාවත, කොළඹ 08.

Comments to be sent to: SRI LANKA STANDARDS INSTITUTION, 17, VICTORIA PLACE,
ELVITIGALA MAWATHA, COLOMBO 08.

නැඳින්වීම

මෙම ශ්‍රී ලංකා ප්‍රමිති කෙටුම්පත , ශ්‍රී ලංකා ප්‍රමිති ආයතනය විසින් සකසන ලදුව, සියලුම උදෙසාගේ අංශ වලට තාක්ෂණික විවේචනය සඳහා යටත් ලැබේ.

අදාළ අංශ හැර කමිටු මාර්ගයෙන් ආයතනයේ මහා මණ්ඩල වෙත ඉදිරිපත් කිරීමට පෙර , ලැබෙන සියලුම විවේචන ශ්‍රී ලංකා ප්‍රමිති ආයතනය විසින් සලකා බලා අවශ්‍ය වෙනස්කම් කෙටුම්පත සංශෝධනය කරනු ලැබේ.

මෙම කෙටුම්පතට අදාළ යෝජනා හා විවේචන නියමිත දිනට පෙර ලැබෙන්නට සැලැස්වුවහොත් අභ්‍යන්තර සලකුණු, තවද, මෙම කෙටුම්පත පිළිගත හැකි බැව් හැඟෙන අය ඒ බව දන්වන්නේ නම් එය ආයතනයට උපකාරී වනු ඇත.

මේ පිළිබඳව එවන සියලුම ලිපි පහත සඳහන් ලිපිනයට එවිය යුතුය.

අධ්‍යක්ෂ ජනරාල්
ශ්‍රී ලංකා ප්‍රමිති ආයතනය,
17, වික්ටෝරියා පෙදෙස,
ඇල්විටිගල මාවත,
කොළඹ 08.

XX

Introduction

This Draft Sri Lanka Standard has been prepared by the Sri Lanka Standards Institution and is now being circulated for technical comments to all interested parties.

All comments received will be considered by the SLSI and the draft if necessary, before submission to the Council of the Institution through the relevant Divisional Committee for final approval.

The Institution would appreciate any views on this draft which should be sent before the specified date. It would also be helpful if those who find the draft generally acceptable could kindly notify us accordingly.

All Communications should be addressed to:

The Director General
Sri Lanka Standards Institution,
17, Victoria Place,
Elvitigala Mawatha,
Colombo 08.

DRAFT AMENDMENT NO: 04 TO SLS 759: 1986

**SRI LANKA STANDARD SPECIFICATION FOR CHLORINATED LIME (BLEACHING
POWDER) AND CALCIUM HYPOCHLORITE**

Draft for Public Comments Only

SRI LANKA STANDARDS INSTITUTION

Draft Amendment No: 04 approved on to SLS 759 : 1986

**SRI LANKA STANDARD
SPECIFICATION FOR CHLORINATED LIME (BLEACHING POWDER)
AND CALCIUM HYPOCHLORITE**

Delete the text given in Appendix C and substitute the following:

**APPENDIX C
DETERMINATION OF AVAILABLE CHLORINE**

“C.1 REAGENTS

C.1.1 Potassium dichromate solution, 0.02 M.

Carefully pulverize a quantity of Potassium dichromate ($K_2Cr_2O_7$) and dry at 110 ± 5 °C to constant mass. Dissolve 4.904 g of the dried reagent in water to make exactly 1 litre and mix thoroughly.

C.1.2 Standard Sodium thiosulphate solution, 0.1 M.

C.1.2.1 Standardization of Sodium thiosulphate Solution

In a 250 ml glass-stoppered flask, take 2 g of Potassium iodide and about 25 ml water to dissolve it. Then add approximately 2 g of Sodium bicarbonate and 5 ml of Hydrochloric acid. Just before the effervescence ceases, add 25 ml of 0.02 M Potassium dichromate solution and stopper the flask. When the effervescence ceases, allow the flask to stand for 10 min in a cool and dry place. Dilute with 50 ml of water and titrate against standard Sodium thiosulphate solution till the liquid in the flask has assumed a yellowish green colour. Then add starch solution and continue with the addition of Sodium thiosulphate solution until the blue colour is just discharge.

C.1.3 Starch indicator

Mix 1 g of starch with 10 ml of cold water and pour, with constant stirring, in to 200 ml boiling water. Allow to settle and use the clear supernatant liquid.

C.1.4 Potassium iodide, solid

C.1.5 Glacial Acetic acid

C.2 PROCEDURE

Weigh accurately about 2.5 g of the sample and grind in a mortar with water till a smooth paste is formed. Add 15 to 25 ml of water and decant off the fine part into a 250-ml flask. Again grind the material left behind and repeat the process of decanting off till no gritty material is left. Wash the pestle and mortar in the same flask. Make up the solution to 250 ml. Take 25 ml of this solution, add 2 g of Potassium iodide and 100 ml of water followed by 2 ml of glacial Acetic acid. Titrate it against the standard Sodium thiosulphate solution till the pale yellow colour is left. At this stage add starch indicator and continue the addition of standard Sodium thiosulphate solution till the blue colour discharges.

C.3 CALCULATION

$$\text{Available Chlorine, per cent by mass} = \frac{V_1 \times M \times 35.46}{m}$$

where,

V_1 is the volume, in milliliters, of standard Sodium thiosulphate solution required for titration of the sample;

M is the molarity, of the standard Sodium thiosulphate solution; and

m is the mass, in g, of original sample taken for the test.”

DRAFT AMENDMENT NO: 04 TO SLS 759: 1986

SRI LANKA STANDARD SPECIFICATION FOR CHLORINATED LIME (BLEACHING POWDER) AND CALCIUM HYPOCHLORITE

EXPLANATORY NOTE

In order to update the test method for determination of available Chlorine content given in Appendix C due to the ban on Sodium arsenite chemical.

This amendment is issued accordingly.

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Draft for Public Comments Only