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**Ceylon Standard Specification for
Aluminium Foils and Linings**

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BUREAU OF CEYLON STANDARDS

**CEYLON STANDARD SPECIFICATION FOR
ALUMINIUM FOILS AND LININGS**

C. S. 120:1971

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CEYLON STANDARD SPECIFICATION FOR ALUMINIUM FOILS AND LININGS

FOREWORD

This Ceylon Standard Specification has been prepared by the Drafting Committee on Aluminium Foils and Linings. It was approved by the Mechanical Engineering Divisional Committee of the Bureau of Ceylon Standards, and was authorised for adoption and publication by the Council of the Bureau on 1971-12 02.

This standard specification was prepared to guide both the consumer and the manufacturer, since a large proportion of our requirements of Aluminium Foils and Linings are manufactured locally.

All quantities and dimensions in this standard have been given in S.I. units. Inch equivalents have been given in certain places and will be in force until such time as the industry switches over to the metric system completely.

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 observation shall be rounded off in accordance with C. S. 102: Ceylon Standard on Presentation of Numerical Values. The number of figures to be retained in the rounded off values shall be the same as that of the specified value in this standard.

In the preparation of this standard, assistance has been derived from the Indian and British Standards.

1. SCOPE

This Ceylon Standard covers requirements for Aluminium Foils and Linings of thickness not exceeding 0.1 mm.

2. TERMINOLOGY

- 2.1 **Light Gauge Foil** - Aluminium foil which has a thickness up to and including 0.009 mm.
- 2.2 **Medium Gauge Foil** - Aluminium foil which has a thickness over 0.009 mm. and up to and including 0.04 mm.
- 2.3 **Heavy Gauge Foil** - Aluminium foil which has thickness over 0.04 mm.
- 2.4 **Tagger Foil** - Aluminium foil used in air-tight containers.
- 2.5 **Set of Linings** - Three sheets of aluminium foil of appropriate sizes used to line one chest constitute a set.

3. TYPES

3.1 There shall be four types of aluminium foil depending on the purpose for which they are used.

- (a) Aluminium foil for caps on glass dairy product containers.
- (d) Aluminium for Tea Chest Linings and Desiccated Coconut Chest Linings.
- (c) Aluminium Tagger Foil.
- (d) Aluminium foil for wrappers.

4. GENERAL REQUIREMENTS FOR ALL TYPES

4.1 Material

4.1.1 Aluminium alloys having either of the following chemical compositions shall be used for the manufacture of Aluminium Foils and Linings. Lubricants wherever used shall be non-toxic. Unless otherwise indicated all limits are maxima.

Grade (1)	Constituent	Percent
	Aluminium not less than	99.0
	Copper	0.10
	Silicon	0.5
	Iron	0.7
	Manganese	0.1
	Zinc	0.1
	Total impurities Cu+Si+Fe+Mn+Zn	1.0
Grade (2)	Constituent	Percent
(For thicknesses above 0.015 mm only)	Copper	0.1
	Magnesium	0.1
	Silicon	0.6
	Iron	0.7
	Manganese	0.8 to 1.5
	Zinc	0.2
	Aluminium	Remainder
Chromium and Titanium and/or other grain refining elements		0.2

4.1.2 **Condition** - The material shall be either annealed or of an intermediate temper.

4.1.3 **Tensile properties** - Tensile strength of the material shall comply with the following requirements: