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SRI LANKA STANDARD 239 : 1973

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**SPECIFICATION FOR
STEEL SPRING WASHERS FOR
GENERAL ENGINEERING
PURPOSES
(METRIC UNITS)**

**ලංකා ප්‍රමිති කාර්යාංශය
BUREAU OF CEYLON STANDARDS**

**SPECIFICATION FOR STEEL SPRING
WASHERS FOR GENERAL ENGINEERING
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S.L.S. 239 : 1973

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Sri Lanka Standards are subject to periodical revision in order to accommodate the progress made by industry. Suggestions for improvement will be recorded and brought to the notice of the Committees to which the revisions are entrusted.

This Standard does not purport to include all the necessary provisions of a contract.

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SRI LANKA STANDARD SPECIFICATION FOR STEEL SPRING WASHERS FOR GENERAL ENGINEERING PURPOSES (METRIC UNITS)

FOREWORD

This Sri Lanka Standard Specification for steel spring washers for general engineering purposes has been prepared by the Drafting Committee on Washers for general engineering purposes. 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 5th December 1973.

In the light of the country's proposal to adopt the Metric System the Committee decided the specification include only metric size spring washers.

This standard provides for single coil, rectangular and square section metric series spring washers of helical construction suitable for use with metric threaded fasteners within the range 2 mm (M 2) to 52 mm (M 52) diameter intended for general engineering purposes.

The use of material other than those specified in this standard is to be the subject of agreement between the manufacturer and the purchaser.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value observed or calculated, expressing the results of a test, shall be rounded off in accordance with C.S. 102 : Presentation of Numerical Values. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

The assistance derived from the publications of the British Standards Institution and the Deutcher Normenausschuss in the preparation of this standard is acknowledged.

1. SCOPE

- 1.1 This standard specifies the dimensions, tolerances and general requirements for metric series spring washers of helical construction, suitable for use with metric threaded fasteners within the range 2 mm (M2) to 52 mm (M 52) diameter. Dimensions and tolerances are specified for the following types.

<i>Type A</i> — Single Coil square section	Table 1
<i>Type B</i> — Single Coil rectangular section (with normal ends)	} Table 2
<i>Type C</i> — Single Coil rectangular section (with deflected ends)	

Note: Washers supplied in accordance with this specification are for use in right hand threads, unless otherwise specified by the purchaser (see clause 10).

2. MATERIAL

- 2.1 Unless otherwise specified, spring washers complying with the provisions of this standard shall be manufactured from spring steel.
- 2.2 **Chemical Composition**—Suitable steels for the manufacture of spring washers shall be selected from the following Table.

	Chemical Composition Per cent				
	C	Si	Mn	P	S
Type 1	0.39 to 0.46	0.15 to 0.35	0.30 to 0.60	0.040 Max	0.040 Max
Type 2	0.39 to 0.46	0.15 to 0.35	0.60 to 0.90	0.040 Max	0.040 Max
Type 3	0.35 to 0.42	1.4 to 1.6	0.50 to 0.80	0.050 Max	0.050 Max
Type 4	0.60 to 0.90	0.35 Max	0.30 to 0.90	0.050 Max	0.050 Max