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GREY CAST IRON

PART 4 - METHOD OF TEST FOR TRANSVERSE STRENGTH

SRI LANKA STANDARDS INSTITUTION

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Gr. 5

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SRI LANKA STANDARD
GREY CAST IRON
PART 4 : METHOD OF TEST FOR TRANSVERSE STRENGTH

FOREWORD

This standard was authorized for adoption and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standards Institution on 1990-12-12, after the draft, finalized by the Drafting Committee on Grey Cast Iron, had been approved by the Mechanical Engineering Divisional Committee.

The standard on grey cast iron is presented in six parts, namely;

Part 1 Specification for grey cast iron for general purposes

Part 2 Specification for grey cast iron for automotive industry

Part 3 Method of test for tensile strength

Part 4 Method of test for transverse strength

Part 5 Metallographic evaluation of grey cast iron

Part 6 Heat treatment of grey cast iron

When all these parts are approved by the Council as Sri Lanka Standards, SLS 178 will be withdrawn.

A transverse bending test on an as-cast test bar of grey cast iron is useful as a rapid and inexpensive means for estimating the approximate strength of the material. The test yields easily measured deflection values which are useful for comparing the relative ductilities of different test bars of grey cast iron.

All values in this standard are given in SI units.

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 should be the same as that of the specified value in this standard.

The Sri Lanka Standards Institution gratefully acknowledges the use of relevant publications of the International Organization for Standardization (ISO), the Bureau of Indian Standards and the Society of Automotive Engineers of the United States of America in the preparation of this standard.