

**SINGAPORE STANDARD**

## **Steel for the prestressing of concrete**

– Part 5 : Hot-rolled steel bars with or without  
subsequent processing



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This Singapore Standard was approved by the Building Materials Product Standards Committee on behalf of the Standards Council of Singapore on 31 March 2000.

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The Building Materials Product Standards Committee appointed by the Standards Council consists of the following members:

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## National Foreword

This Singapore Standard was prepared by the Technical Committee on Steel under the direction of the Building Materials Product Standards Committee.

This standard is identical to ISO 6934-5 : 1991 which is published by the International Organisation for Standardisation. The Technical Committee has included Annexes ZA and ZB which are for users' information only.

Annex ZA (Informative) 'Guidelines on modulus elasticity' has been included for the designers' easy reference whereas Annex ZB (Informative) is a specification to limit ionising radiation from steel for the reinforcement of concrete. The specification is introduced to address concerns of possible radioactive contamination during the manufacturing process and the risk to health through exposure to radioactivity from the finished steel product.

Attention is drawn to the following:

1. Where the words 'International Standard' appear, they should be read as 'Singapore Standard'.
2. The comma has been used throughout as a decimal marker, whereas in Singapore Standards, it is a practice to use a full-point on the baseline as the decimal marker.
3. This ISO standards referred to shall be replaced by Singapore Standards as follows:

International Standards	Corresponding Singapore Standards
ISO 6934-1 : 1991	SS 475 : Part 1 : 2000 Steel for the prestressing of concrete – Part 1 : General requirements
ISO 10065 : 1990	SS 427 : 1998 Steel bars for reinforcement of concrete – Bend and rebend tests

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all of such patent rights.

### NOTE

1. Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions.
2. An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR.
3. Compliance with a SS or TR does not exempt users from any legal obligations.

# Specification for steel for the prestressing of concrete – Part 5 : Hot-rolled steel bars with or without subsequent processing

## 1 Scope

This part of ISO 6934 specifies requirements for round high tensile steel bars. The bars may be supplied either hot-rolled or in a hot-rolled and processed condition, according to the general requirements specified in ISO 6934-1. The surface may be plain or ribbed.

The bars are delivered in straight lengths.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 6934. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 6934 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 6934-1:1991, *Steel for the prestressing of concrete – Part 1: General requirements.*

ISO 10065:1990, *Steel bars for reinforcement of concrete – Bend and rebend tests.*