
**Steel cord conveyor belts —
Longitudinal traction test —**

**Part 2:
Measurement of tensile strength**

*Courroies transporteuses à câbles d'acier — Essai de traction dans le
sens longitudinal —*

Partie 2: Mesurage de la résistance à la rupture



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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#).

The committee responsible for this document is ISO/TC 41, *Pulleys and belts (including veebelts)*, Subcommittee SC 3, *Conveyor belts*.

This second edition cancels and replaces the first edition (ISO 7622-2:1984), of which it constitutes a minor revision.

ISO 7622 consists of the following parts, under the general title *Steel cord conveyor belts — Longitudinal traction test*:

- *Part 1: Measurement of elongation*
- *Part 2: Measurement of tensile strength*

Introduction

This test method is intended to verify, by destructive testing, the tensile strength of steel cords constituting the carcass of conveyor belts. As it is a destructive test, it is used only in the event of litigation or where no certificate of compliance is issued by the cord manufacturer.

Steel cord conveyor belts — Longitudinal traction test —

Part 2: Measurement of tensile strength

1 Scope

This part of ISO 7622 specifies a method for the determination of the tensile strength, in the longitudinal, of steel cords constituting the carcass of conveyor belts.

It applies exclusively to conveyor belts with a steel carcass.

NOTE A method for the determination of elongation is specified in ISO 7622-1.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 18573, *Conveyor belts — Test atmospheres and conditioning periods*

3 Principle

The traction test for breaking a test specimen is prepared in such a way that only one of the warp cords is under stress.

4 Apparatus

Dynamometric tensile testing machine, complying with the following requirements.

- a) The force exerted by the machine shall be adaptable to the strength of the test specimen. The testing machine capacity shall be such that the maximum testing load is 15 % to 85 % of the capacity of the machine.
- b) The rate of separation of the jaws shall be capable of being set at (100 ± 10) mm/min and shall be capable of being maintained constant.
- c) The separation between the jaws shall be capable of being set at least 250 mm.
- d) The form of the jaws shall be such that the test specimen is held perfectly and all possibility of slipping during the test is eliminated. For this purpose, cross-ribbed jaws (see [Figure 1](#)), with the length of the ribbed part at least 80 mm, are recommended. A small amount of slippage is allowed for rubber elongation.