

### SLOVENSKI STANDARD SIST ISO 3108:1997

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### Jeklene žične vrvi za splošne namene - Ugotavljanje dejanske pretržne sile

Steel wire ropes for general purposes -- Determination of actual breaking load

Câbles en acier pour usages courants - Détermination de la charge de rupture effective

	(stand	lards.	iteh.ai)
Ta slovenski standard je istov	veten z:	ISO	3108:1974

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<u>CS:</u>		
77.140.65	Jeklene žice, jeklene vrvi in verige	Steel wire, wire ropes and link chains



## iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST ISO 3108:1997</u> https://standards.iteh.ai/catalog/standards/sist/3acb87c4-a547-488f-a0fa-0fa236cc78d0/sist-iso-3108-1997



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MET MET OF A POPAHUSALUN TO CTAHDAPTUSALUN ORGANISATION INTERNATIONALE DE NORMALISATION

# Steel wire ropes for general purposes – Determination of actual breaking load

Câbles en acier pour usages courants — Détermination de la charge de rupture effective

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### SIST ISO 3108:1997

### FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 3108 was drawn up by Technical Committee VIEW ISO/TC 105, *Steel wire ropes,* and circulated to the Member Bodies in February 1973.

It has been approved by the Member Bodies of the following countries 8-1997

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Austria	France	0fa236c South Africa 3 Rep. 1957
Belgium	Germany	Spain
Bulgaria	India	Sweden
Chile	Ireland	Switzerland
Czechoslovakia	Israel	Thailand
Denmark	Italy	Turkey
Finland	Romania	United Kingdom

This International Standard has also been approved by the International Organization for the Study of the Endurance of Wire Ropes (OIPEEC).

The Member Bodies of the following countries expressed disapproval of the document on technical grounds :

Australia Egypt, Arab Rep. of New Zealand

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### Steel wire ropes for general purposes - Determination of actual breaking load

### **1 SCOPE AND FIELD OF APPLICATION**

This International Standard specifies a method of tensile test to destruction for determining the actual breaking load of steel wire ropes for general purposes as given in ISO 2408, Steel wire ropes for general purposes -Characteristics.

It may also be used for other ropes, unless the standard concerned specifically excludes its use, or gives another method.

taken out of the test piece. In the same way, the rope from which the test piece is taken shall be secured. When cutting the test piece from the rope, neither the test piece nor the rope shall be damaged.

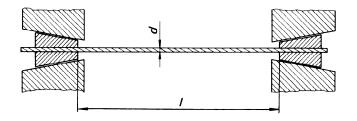
During testing, the test piece shall be gripped in such a way that all wires in the rope take part in the acceptance of the load. It may be useful to provide the test piece with conical sockets. If such sockets are used, care has to be taken that the casting material penetrates well to ensure intimate cohesion with the untwisted wires.

### 2 TEST LENGTH

#### NDARD PREVIEW i'l'eh The test length (distance between the grips) shall be in accordance with the following table.

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	Dimensions in mil		
Rope d	iameter htt	ps://star <b>Minimum/restandur</b> (/fa236cc78d0/sist-	
d	′≤ 6	300	
6 < d	/ ≤ 20	600	
d	/ > 20	30 × <i>d</i>	



### **3 TEST PIECE**

The minimum length of the test piece is made up of the test length plus an allowance for gripping.

The test piece shall be representative of the rope as a whole and free from defects. Prior to selection, the ends of the test piece shall be secured to prevent turn being put into or

4.1 Not more than 80% of the minimum breaking load 108:1given in ISO 2408 may be applied quickly; the remaining rds/sistoad shattl-be4appliedasfowly, at a rate of application of -iso-3stress of approximately 10 MPa per second.

4.2 The actual breaking load is reached when no further increase of the load is possible.

4.3 Tests in which breaking occurs inside or adjacent to the grips may be discarded at the option of the manufacturer in cases where the minimum breaking load is not reached.

#### 5 TEST REPORT

The test report shall include the following particulars :

a) the reference to the method used, that is, this International Standard;

- b) the results (in terms of magnitude and unit);
- c) any unusual features noted during the test;

d) any operation not included in this International Standard or regarded as optional.