# Short pitch transmission precision bush chains and chain wheels 

## AMENDMENT 1


#### Abstract

Amendment 1 to International Standard ISO 1395 was developed by Technical Committee ISO/TC 100, Chains and chain wheels for power transmission and conveyors, and was circulated to the member bodies in May 1981


It has been approved by the member bodies of the following countries:


No member body expressed disapproval of the document.

## ISO 1395:1977/Amd 1:1982

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85 ce999636f7/iso-1395-1977-and-1-1982

Page 1
Replace sub-clause 3.4 by the following :

### 3.4 Minimum ultimate tensile strength

3.4.1 The minimum tensile strength is the minimum strength of samples tested to destruction in tensile loading, as defined in 3.4.2. This strength is not a working load. It is intended primarily as a comparative figure between chains of various materials and constructions. For application information, the manufacturers or their published data should be consulted.
3.4.2 A tensile load, not less than that specified in tables 1 and 1 M , is applied slowly to the ends of a chain length, containing at least five free pitches, by means of shackles permitting free movement on both sides of the chain centre line, in the normal plane of articulation.

Tests in which failures occur adjacent to the shackles shall be disregarded
Failure shall be considered to have occurred at the first point where increasing extension is no longer accompanied by increasing load, i.e. the summit of the load/extension diagram.
3.4.3 The tensile test shall be considered a destructive test. Even though a chain may not visibly fail when subjected to the minimum breaking load it will have been stressed beyond the yield point and will be unfit for service."

## UDC 621.855

Ref. No. ISO 1395-1977/A1-1982 (E)

Descriptors : precision equipment, chains, sprocket wheels, chain drives, specifications, dimensions, designation.
(C) International Organization for Standardization, 1982

## Replace sub-clause 3.5 by the following :

## "3.5 Proof loading

It is recommended that all chains should be proof loaded to one-third of the minimum tensile breaking load given in tables 1 and 1 M ."

## Page 3

Sub-clause 3.6; second paragraph, delete the words "49 times the pitch of the chain" and substitute "a minimum of 24 in (610 mm)".

## Page 5

Tables 1 and 1 M ; delete the existing tables and substitute the tables on the following page (only columns 4 and 15 have been amended).

## Page 8

## Sub-clause 5.5.1

Amend " $r_{x}$ " to read "tooth side radius" and " $r_{a}$ " to read "shroud fillet radius".

## Sub-clause 5.5.2

## Amend as follows :

a) " $r_{x}$ " to read " $r_{\text {n nom }}=p$ "; iTTelh STANDARD PREVIEW
b) " $b_{\mathrm{a}}$ " to read " $b_{\mathrm{a} \text { nom }}=0,13 \mathrm{p}$ "; (Standarrds.itelh.aii)
c) Delete " $r_{\mathrm{a} \text { act }}=$ actual shroud radius provided"': $\underline{\text { ISO 1395:1977/Amd 1:1982 }}$
d) " $d_{\mathrm{g}}$ " to read https //standards.iteh.ai/catalog/standards/sist/50547eed-2b63-4e92-9ea1-
$" d_{\mathrm{g}}=p \cot \frac{180^{\circ}}{z}-1.04 h_{2}-0.030$ in (where $p$ and $h_{2}$ are expressed in inches)
or
$=p \cot \frac{180^{\circ}}{z}-1,04 h_{2}-0,76 \mathrm{~mm}$ (where $p$ and $h_{2}$ are expressed in millimetres)."
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(standards.iteh.ai)
Table 1 - Chain dimensions, measuring loads and breaking loads (Inch-pound units)

Table 1M - Chain dimensions, measuring loads and breaking loads (Metric units)

|  | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | daN | daN | daN | daN | daN | daN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04 C | 6,35 | 3,30 | 3,10 | 2,311 | 2,34 | 6,27 | 6,02 | 5,21 | 2,64 | 3,06 | 0,08 | 6,40 | 4,80 | 4,85 | 9,1 | 15,5 | 21,8 | 2,5 | 5 | 10 | 15 | 350 | 700 | 1050 |
| 06 C | 9.525 | 5.08 | 4,68 | 3.580 | 3,63 | 9,30 | 9,05 | 7,80 | 3,96 | 4,60 | 0,08 | 10,13 | 7.47 | 7,52 | 13,2 | 23,4 | 33,5 | 3,3 | 7 | 14 | 21 | 790 | 1580 | 2370 |

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85ce999636f7/iso-1395-1977-amd-1-1982


[^0]:    Cranked links are nut recormmended for use on chains which are intended for onerous applications.

