

BUREAU OF INDIAN STANDARDS
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भारतीय मानक मसौदा
संचरण परिशुद्धता रोलर चेन और पत्ती
चेन की श्रान्ति परीक्षण पद्धति
(IS 15790 का पहला पुनरीक्षण)

Draft Indian Standard

**Fatigue Test Method for Transmission
Precision Roller Chains and Leaf Chains**

(First Revision of IS 15790)

ICS 21.220.30

Transmission Devices Sectional Committee, PGD 33	Last Date for Comments: 05-08-2025
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NATIONAL FOREWORD

This Indian Standard (First Revision) which is identical with ISO 15654 : 2015 ‘Fatigue Test Method for Transmission Precision Roller Chains and Leaf Chains’ issued by the International Organization for Standardization (ISO) will be adopted by the Bureau of Indian Standards on the recommendation of the Transmission Devices Sectional Committee and approval of the Production and General Engineering Division Council.

This Standard specifies an axial force fatigue test method for transmission roller chains and leaf chains. The tests being of the fluctuating tension type, carried out at room temperature in air, with the force applied along the longitudinal axis of the chain. It also specifies procedures for statistically analysing the test results and gives formats and elements for presenting the results of fatigue tests and analyses.

This Indian standard was first published in 2008. This first revision has been brought out to align it with ISO 15654 : 2015.

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, references appear to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 606 Short-pitch transmission precision roller chains and chain wheels	IS 2403 : 2024 Short-pitch transmission precision roller chains and chain wheels (<i>fourth revision</i>)	Identical
ISO 4347 : 2015, Leaf chains, clevises and sheaves — Dimensions, measuring forces, tensile strengths and dynamic strengths	IS 1072 : 2024/ISO 4347 : 2015 Leaf chains, clevises and sheaves — Dimensions, measuring forces, tensile strengths and dynamic strengths (<i>fourth revision</i>)	Identical
ISO 10190 Motorcycle chains — Characteristics and test methods	IS 11740 : 2014/ISO 10190 : 2008 Motorcycle chains — Characteristics and test methods (<i>first revision</i>)	Identical

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 analysis, shall be rounded off in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revised*).’

NOTE: The technical content of draft standard is not available on website. For details, please refer to ISO 15790 : 2015 or contact:

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