
Vzmeti - Merilni in preskusni parametri - 2. del: Hladno oblikovane cilindrične vijačne vzmeti (ISO 22705-2:2023)

Springs - Measurement and test parameters - Part 2: Cold formed cylindrical helical extension springs (ISO 22705-2:2023)

Federn - Mess- und Prüfparameter - Teil 2: Kaltgeformte zylindrische Schraubenzugfedern (ISO 22705-2:2023)

Ressort - Mesures et paramètres d'essai - Partie 2: Ressort hélicoïdal de traction cylindrique formé à froid (ISO 22705-2:2023)

Ta slovenski standard je istoveten z: prEN ISO 22705-2

[oSIST prEN ISO 22705-2:2025](https://standards.sist.si/catalog/standards/sist/17aa911f-6053-4155-910c-075d81ad5299/osist-pr-en-iso-22705-2-2025)

ICS:

21.160

Vzmeti

Springs

oSIST prEN ISO 22705-2:2025**en,fr,de**

INTERNATIONAL STANDARD

ISO
22705-2

First edition
2023-02

Springs — Measurement and test parameters —

Part 2: Cold formed cylindrical helical extension springs

Ressort - Mesures et paramètres d'essai —

Partie 2: Ressort hélicoïdal de traction cylindrique formé à froid

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[oSIST prEN ISO 22705-2:2025](https://standards.iteh.ai/catalog/standards/sist/17aa91ff-c653-4455-910e-073d84ad5299/osist-pren-iso-22705-2-2025)

<https://standards.iteh.ai/catalog/standards/sist/17aa91ff-c653-4455-910e-073d84ad5299/osist-pren-iso-22705-2-2025>



Reference number
ISO 22705-2:2023(E)

© ISO 2023

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

oSIST prEN ISO 22705-2:2025

<https://standards.iteh.ai/catalog/standards/sist/17aa91ff-c653-4455-910e-073d84ad5299/osist-pren-iso-22705-2-2025>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2023

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

	Page
Foreword.....	v
1 Scope.....	1
2 Normative references.....	1
3 Terms, definitions, symbols and abbreviated terms.....	1
3.1 Terms and definitions.....	1
3.2 Symbols and abbreviated terms.....	2
4 Environmental conditions.....	3
5 Qualifications of the person(s) performing the work.....	3
6 Geometries of guiding and supporting devices.....	3
7 Measuring and testing equipment.....	3
8 Measurement and test parameter for technical cold formed cylindrical extension springs.....	4
8.1 Free length (L_0).....	4
8.1.1 General.....	4
8.1.2 Type of characteristic.....	4
8.1.3 Measuring and/or testing equipment.....	4
8.1.4 Conditions of measurement and testing.....	4
8.1.5 Method of measurement and testing.....	4
8.1.6 Test location on the product.....	7
8.2 Body length (L_B).....	7
8.2.1 General.....	7
8.2.2 Type of characteristic.....	7
8.2.3 Measuring and/or testing equipment.....	8
8.2.4 Conditions of measurement and testing.....	8
8.2.5 Method of measurement and testing.....	8
8.2.6 Test location on the product.....	10
8.3 Spring hook length (L_H).....	10
8.3.1 General.....	10
8.3.2 Type of characteristic.....	10
8.3.3 Measuring and/or testing equipment.....	11
8.3.4 Conditions of measurement and testing.....	11
8.3.5 Method of measurement and testing.....	11
8.3.6 Test location on the product.....	13
8.4 Hook opening (m).....	13
8.4.1 General.....	13
8.4.2 Type of characteristic.....	13
8.4.3 Measuring and/or testing equipment.....	14
8.4.4 Conditions of measurement and testing.....	14
8.4.5 Method of measurement and testing.....	14
8.4.6 Test location on the product.....	15
8.5 Outside diameter (D_o).....	15
8.5.1 General.....	15
8.5.2 Type of characteristic.....	15
8.5.3 Measurement and/or testing equipment.....	16
8.5.4 Conditions of measurement and testing.....	16
8.5.5 Method of measurement and testing.....	16
8.5.6 Test location on the product.....	20
8.6 Inside diameter (D_i).....	20
8.6.1 General.....	20
8.6.2 Type of characteristic.....	20
8.6.3 Measuring and/or testing equipment.....	20
8.6.4 Conditions of measurement and testing.....	20

ISO 22705-2:2023(E)

8.6.5	Method of measurement and testing	21
8.6.6	Test location on the product	23
8.7	Total number of coils (n_t), number of active coils (n) and coil direction	23
8.7.1	General	23
8.7.2	Type of characteristic	23
8.7.3	Measuring and/or testing equipment	25
8.7.4	Conditions of measurement and testing	25
8.7.5	Method of measurement and testing	25
8.7.6	Test location on the product	26
8.8	Bending radius (r)	26
8.8.1	General	26
8.8.2	Type of characteristic	26
8.8.3	Measuring and/or testing equipment	27
8.8.4	Conditions of measurement and testing	27
8.8.5	Method of measurement and testing	27
8.8.6	Test location on the product	27
8.9	Spring load (F)	28
8.9.1	General	28
8.9.2	Type of characteristic	28
8.9.3	Measuring and/or testing equipment	28
8.9.4	Conditions of measurement and testing	28
8.9.5	Method of measurement and testing	28
8.9.6	Test location on the product	29
8.10	Spring pitch (p) / distance between the coils (u)	29
8.10.1	General	29
8.10.2	Type of characteristic	29
8.10.3	Measuring and/or testing equipment	30
8.10.4	Conditions of measurement and testing	30
8.10.5	Method of measurement and testing	30
8.10.6	Test location on the product	30
8.11	Loop/ Hook position	31
8.11.1	General	31
8.11.2	Type of characteristic	31
8.11.3	Measuring and/or testing equipment	31
8.11.4	Conditions of measurement and testing	32
8.11.5	Method of measurement and testing	32
8.11.6	Test location on the product	32
8.12	Shear-off burr	32
8.12.1	General	32
8.12.2	Type of characteristic	32
8.12.3	Measuring and/or testing equipment	33
8.12.4	Conditions of measurement and testing	33
8.12.5	Method of measurement and testing	33
8.12.6	Test location on the product	34
Annex A (Informative) Calculation of spring rate R		35
Annex B (Informative) Calculation of initial tension force (F_i)		36
Annex C (Informative) Types of hooks		38