

SLOVENSKI STANDARD SIST EN 28029:2001

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Plastics hose - General purpose collapsible water hose, textile reinforced - Specification (ISO 8029:1985)

Kunststoffschläuche - Faltbarer Wasserschlauch mit Textileinlage für die allgemeine Anwendung - Anforderung (ISO 8029:1985), RD PREVIEW

Tuyaux plastiques - Tuyaux d'eau écrasables d'usage général renforcé textiles - Spécification (ISO 8029:1985)

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Ta slovenski standard je istoveten z: EN 28029-2001

ICS:

23.040.70 Gumene cevi in armature Hoses and hose assemblies

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EUROPEAN STANDARD

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Descriptors:

r 2

Plastics products, plastics hoses, water pipes, flexible pipes, reinforced plastics, specification, dimension, hydrostatic tests, test pressure, adhesion tests, marking

English version

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CEN

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

Central Secretariat: rue de Stassart,36 B-1050 Brussels

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Foreword

This European Standard is the endorsement of ISO 8029. Endorsement of ISO 8029 was recommended by CEN/TC 218 "Rubber and plastics hoses and hose assemblies" under whose competence this European Standard will henceforth fall.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at least by July 1993, and conflicting national standards shall be withdrawn at the latest by July 1993.

The Standard was approved and in accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

Endorsement notice iTeh STANDARD PREVIEW

The text of the International Standard ISO 8029:1985 was approved by CEN as a European Standard without any modification.

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THE ROBLAN COSTA ON VORVING

International Standard



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION•МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ•ORGANISATION INTERNATIONALE DE NORMALISATION

Plastics hose — General purpose collapsible water hose, textile reinforced — Specification

Tuyaux plastiques — Tuyaux d'eau écrasables d'usage général renforcés textiles — Spécifications

First edition – 1985-05-15 iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 28029:2001</u> https://standards.iteh.ai/catalog/standards/sist/508be3fl-686c-4787-bc57-6465c8edb9b8/sist-en-28029-2001

UDC 621.643.33

Ref. No. ISO 8029-1985 (E)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8029 was prepared by Technical Committee ISO/TC 45, Rubber and rubber products.

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Plastics hose - General purpose collapsible water hose, textile reinforced — Specification

Scope and field of application

This International Standard specifies the requirements for two types of textile reinforced thermoplastics collapsible water hoses for general applications to a maximum temperature of

It is not a specification for products used for fire-fighting, agriculture or irrigation purposes.

The two types of hose specified are

type 1 — low pressure;

iTeh STANDARD type 2 — high pressure.

The cover and the lining shall be fully gelled and shall be free from visible cracks, porosity, foreign inclusions or other defects causing the hose to be unserviceable.

Dimensions and tolerances

4.1 Bore

The bore of the hose shall meet the requirements of table 1, which is in accordance with ISO 1307.

Nominal bores and tolerances

Values in millimetres

2 References

ISO 176, Plastics — Determination of loss of plasticizers — Activated carbon method. 6465c8edb9b8/sist-en-28

ISO 471, Rubber - Standard temperatures, humidities and times for the conditioning and testing of test pieces.

ISO 1307, Rubber and plastics hoses - Bore sizes and tolerances on length.

ISO 1402, Rubber and plastics hoses and hose assemblies -Hydrostatic testing.

ISO 1746, Rubber or plastics hoses and tubing - Bending tests.

ISO 8033, Rubber and plastics hoses — Determination of adhesion between components.

Materials and construction

The hose shall be as uniform as commercially practicable in colour, opacity and other physical properties and shall consist of:

- a) a flexible thermoplastics lining;
- b) a reinforcing layer or layers of natural or synthetic textile applied by any suitable technique;
- c) a flexible thermoplastics cover which may have a smooth or fluted finish. The colour may be different from that of the lining.

(standards its	Nominal bore	Tolerance	
(standards.ite	11.ar) ₂₀	± 0,75	
	25	± 1,25	
s of plasticizers — Ac- s. iteh.ai/catalog/standards/sist/50	1 31,5	± 1,25	-
	08be3f1-686c -49 787-bc57-	± 1,5	l
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	63	± 1,5	
tures, humidities and	80 .	± 2	
f test pieces.	100	± 2	
— Bore sizes and	125	± 2	
	160	± 2	
	200	± 2	
L.			

NOTE — If special cases call for extra sizes:

- a) For smaller or larger dimensions, further numbers shall be chosen from the R 10 series of preferred numbers, with tolerances as given in ISO 1307.
- for intermediate dimensions, numbers shall be chosen from the R 20 series of preferred numbers, with the tolerances as given for the next larger sizes.

4.2 Length

The tolerances on cut lengths shall be as specified in ISO 1307.

Physical tests on finished hoses

5.1 Hydrostatic test

When tested at standard laboratory temperature as specified in ISO 471, by the method described in ISO 1402, the hose shall withstand the appropriate proof and minimum burst pressures specified in table 2.

Table 2 - Proof and minimum burst pressure

	Pressure [MPa (bar)]						
Nominal bore mm	Type 1		Type 2				
	working	proof	minimum burst	working	proof	minimum burst	
20	T			1,55 (15,5)	2,48 (24,8)	4,89 (48,9)	
25	_	_	_	1,55 (15,5)	2,48 (24,8)	4,89 (48,9)	
31,5	-	_	_	1,55 (15,5)	2,48 (24,8)	4,89 (48,9)	
40	0,55 (5,5)	0,88 (8,8)	1,73 (17,3)	1,55 (15,5)	2,48 (24,8)	4,89 (48,9)	
50	0,55 (5,5)	0,88 (8,8)	1,73 (17,3)	1,55 (15,5)	2,48 (24,8)	4,89 (48,9)	
63	0,55 (5,5)	0,88 (8,8)	1,73 (17,3)	1,55 (15,5)	2,48 (24,8)	4,89 (48,9)	
80	0,40 (4,0)	0,64 (6,4)	1,26 (12,6)	1,15 (11,5)	1,84 (18,4)	3,62 (36,2)	
100	0,35 (3,5)	0,56 (5,6)	1,10 (11,0)	1,00 (10,0)	1,60 (16,0)	3,15 (31,5)	
125	0,35 (3,5)	0,56 (5,6)	1,10 (11,0)	0,70 (7,0)	1,12 (11,2)	2,20 (22,0)	
160	0,35 (3,5)	0,56 (5,6)	1,10 (11,0)	0,70 (7,0)	1,12 (11,2)	2,20 (22,0)	
200		- 	_	0,45 (4,5)	0,72 (7,2)	1,41 (14,1)	

At the working pressure appropriate to the type and size of hose as specified, the change in length of the hose shall not exceed ± 7 % and the change in diameter of the hose shall not exceed ± 10 % when tested by the method described in ISO 1402.

design working pressure and a minimum radius of curvature of 16 times the nominal bore of the hose, the hose shall show no signs of leakage or cracks.

During and after the proof pressure hold test described in ISO 1402, the hose shall be examined for evidence of leakage, all cracking, abrupt distortion or other signs of failure indicating irregularities in material or manufacture. No such defects shall be observed.

To be added later.

5.2 Adhesion test

When tested in accordance with ISO 8033 (type 2 test piece) at standard laboratory temperature as specified in ISO 471, the adhesion between the lining and the reinforcement, between the layers of reinforcement and between the reinforcement and the cover, shall not be less than 1,5 kN/m.

5.3 Minimum bend radius test

When tested after conditioning for 24 h at standard laboratory temperature as specified in ISO 471, in accordance with ISO 1746 using an internal hydraulic pressure equal to the design working pressure and a minimum radius of curvature of 8 times the nominal bore of the hose, the hose shall show no signs of leakage or cracks.

When tested after conditioning in accordance with ISO 1746 at 0 \pm 2 °C using an internal hydraulic pressure equal to the

EN 26029206s in mass on heating

5.4 Ultraviolet light test

https://standards.iteh.ai/catalog/standards/sist/508be3f1-686c-4787-bc57-6465c8edb9b8/sistWhenstested.by/method B specified in ISO 176, samples of the lining and the cover shall have a loss in mass not greater than 4 %.

7 Marking

The hose shall be marked using a durable contrasting indelible ink, or other method, with the following information:

- a) the manufacturer's name or trademark;
- b) the number of this International Standard;
- c) the hose type;
- d) the nominal bore;
- e) the year of manufacture;
- f) the working pressure.