INTERNATIONAL STANDARD

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Glass-reinforced thermosetting plastics (GRP) pipes and fittings — Test methods to prove the design of cemented or wrapped joints

AMENDMENT 1

iTeh ST^Tubes et raccords en plastiques thermodurcissables renforcés de verre (PRV) — Méthodes d'essai pour confirmer la conception des (stassemblages scellés ou enrobés AMENDEMENT 1

<u>ISO 8533:2003/Amd 1:2012</u> https://standards.iteh.ai/catalog/standards/sist/a4c9c769-c312-4105-86e3bece3ee70829/iso-8533-2003-amd-1-2012



Reference number ISO 8533:2003/Amd.1:2012(E)

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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to ISO 8533:2003 was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 6, *Reinforced plastics pipes and fittings for all applications*.

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AMENDMENT 1

Title

Correct the title to the following:

Plastics piping systems for pressure and non-pressure drainage and sewerage — Glass-reinforced thermosetting plastics (GRP) systems based on unsaturated polyester (UP) resin — Test methods to prove the design of cemented or wrapped joints

Page 1, Scope

Replace the first sentence with the following:

This International Standard specifies methods of test for cemented or wrapped joints intended to be used in plastics piping systems for pressure and non-pressure drainage and sewerage made of glass-reinforced thermosetting plastics (GRP) based on unsaturated polyester (UP) resin.

Page 6, 7.4.7

ISO 8533:2003/Amd 1:2012

Replace the subclause with the following talog/standards/sist/a4c9c769-c312-4105-86e3-

Steadily increase the hydrostatic pressure to 2,0 times the nominal pressure of the joint, expressed in bars, and maintain within ±2 % for not less than 24 h.

Page 6, 7.5.1

Replace the subclause with the following:

Steadily increase the hydrostatic pressure to 2,0 times the nominal pressure of the joint, expressed in bars, and maintain within ± 2 % for not less than 24 h (see Table 1).

Page 7, 7.5.7

Replace the subclause with the following:

Either increase the pressure to 2,5 times the nominal pressure of the joint, expressed in bars, and maintain that pressure within ± 2 % for 100 h (see Table 1) or increase the pressure to 3 times the nominal pressure of the joint, expressed in bars, and maintain that pressure within ± 2 % for 6 min. During either of these times the joint shall not fracture. Leakage of the joint does not constitute a failure.

Page 8, Table 1

Replace Table 1 with the following, in which some of the table headings have been updated and the test pressure for the resistance to bending and internal pressure and resistance to internal pressure have changed from 1,5 times PN to 2,0 times PN:

Property to be tested	Test to be performed	Test pressure	Duration	Subclause number
External pressure differential	Negative pressure	-0,8 bar (-0,08 MPa)	1 h	7.2 and Figure 1
Initial leakage	Initial pressure	1,5 × PN	15 min	7.3 and Figure 1
Resistance to bending and internal pressure	Preliminary pressure	1,5 × PN	15 min	7.4.1 to 7.4.6 and Figure 2
	Maintained pressure	2,0 × PN	24 h	7.4.7 to 7.4.11 and Figure 2
Resistance to internal pressure	Maintained pressure	2,0 × PN	24 h	7.5.1 to 7.5.3 and Figure 1
	Positive cyclic pressure	atmospheric to 1,5 × PN and back to atmospheric	10 cycles of 1,5 to 3,0 min each	7.5.4 to 7.5.6 and Figure 1 or Figure 2
	Maintained pressure	2,5 × PN or	100 h	7.5.7 to 7.5.9 and Figure 1
		3,0 × PN	6 min	

Table 1 — Summary of test requirements

NOTE 1 Nominal pressure (PN) is an alphanumeric designation of pressure related to the resistance of a component of a piping system to internal pressure. For the purposes of this table, PN is expressed in bars.

NOTE 2 A test sequence different from that given in this table may be used.

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