
**Glass-reinforced thermosetting plastics
(GRP) pipes — Determination of the
long-term ultimate bending strain and the
long-term ultimate relative ring deflection
under wet conditions**

AMENDMENT 1

*Tubes en plastiques thermodurcissables renforcés de verre (PRV) —
Détermination de l'effort à la flexion ultime à long terme et réflexion
annulaire relative ultime à long terme dans des conditions mouillées*

AMENDEMENT 1



Reference number
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Amendment 1 to ISO 10471:2003 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

Page 1, Clause 2

Replace the dated Normative references to ISO 7685 and ISO 10928 with the following undated references:

ISO 7685, *Plastics piping systems — Glass-reinforced thermosetting plastics (GRP) pipes — Determination of initial specific ring stiffness*

ISO 10928, *Plastics piping systems — Glass-reinforced thermosetting plastics (GRP) pipes and fittings — Methods for regression analysis and their use*

Pages 3 and 4, Clause 4

Replace the first sentence of the third paragraph with the following:

“These values of ultimate bending strain and the applicable times, t_U (see 3.10), are used in the procedures described in ISO 10928 to determine the long-term ultimate bending strain under wet conditions, $\epsilon_{U, wet, x}$ ”

Page 4, 5.1

Delete the second paragraph, thus replacing 5.1 with the following:

“The machine shall comprise a system capable of applying a force, without shock, through two parallel force application surfaces conforming to 5.2 so that a horizontally orientated test piece of pipe conforming to Clause 6 and immersed in water can be compressed vertically and maintained under constant force for the duration of the test in accordance with 10.7.

Ensure that the applied force is not affected by buoyancy effects or friction.

NOTE For test pieces subjected to high predetermined forces, for which failure is expected to occur within 100 h, an automatic recording device helps in recording failure times and deflections accurately.”

Page 8, 11.1

Replace the first sentence of the second paragraph with the following: “From this data, determine, in accordance with ISO 10928, the equation of the strain regression line”.

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