
**Plastics piping systems for the supply
of gaseous fuels — Unplasticized
polyamide (PA-U) piping systems
with fusion jointing and mechanical
jointing —**

**Part 2:
Pipes**

*Systèmes de canalisations en matières plastiques pour la distribution
de combustibles gazeux — Systèmes de canalisations en polyamide
non plastifié (PA-U) avec assemblages par soudage et assemblages
mécaniques —*

Partie 2: Tubes 2:2020

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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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 4, *Plastics pipes and fittings for the supply of gaseous fuels*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 155, *Plastics piping systems and ducting systems*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 16486-2:2012), which has been technically revised. It also incorporates ISO 16486-2:2012/Amd 1: 2014.

The main changes compared to the previous edition are as follows:

- [Tables 1](#) and [2](#) are extended with nominal outside diameters up to and including 630 mm;
- In [Table 2](#), former 6 hours has been changed to 16 hours in line with the phrasing in the table header;
- In [Table 3](#), the range for the minimum wall thickness is extended up to and including 37 mm;
- [Table 4](#) allows for $e > 12$ mm to use Type 3 specimen with 10 mm/min for the determination of the elongation at break;
- Informative [Annex A](#) – Butt fusion procedure for jointing PA-U pipes – has been deleted;
- A new normative [Annex A](#) – Squeeze-off technique – has been added;
- A new informative [Annex B](#) – Examples of the water uptake over time as a function of the sample thickness – has been added.

A list of all parts in the ISO 16486 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.