

Date of Issue: August 4, 2023

Affected Publication: API Specification 15S, *Spoolable Reinforced Plastic Line Pipe*, 3rd Edition, April 2022

Addendum 1

Section 2 (Normative References): The following references shall be deleted from the section:

API Specification 17J, *Specification for Unbonded Flexible Pipe, 4th Edition*

ISO 23936-2, *Petroleum, petrochemical and natural gas industries -- Non-metallic materials in contact with media related to oil and gas production — Part 2: Elastomers*

3.2 (Abbreviations): The following abbreviation shall be added to the section:

PE-RT polyethylene of raised temperature resistance

4.2.2.3.4: The section shall be changed to the following:

Polyester fibers shall be filament yarns or polymer-coated tapes. The specification shall include the short-term breaking load for the filament or yarn being specified in accordance with test method ASTM D885 or ASTM D2256, and shall also include the linear density of the fiber. For yarns, the twist in turns per unit length shall be reported.

4.2.3: The fifth paragraph shall be changed to the following:

If PE is used for the cover, the UV resistance for transportation and short-term storage shall be Code C or Code E as defined in ASTM D3350 or ISO 4437-1:2014.

4.2.4: The section title and content shall be changed to the following:

4.2.4 Field Fittings, End Fittings and Pipe-to-pipe Couplings

The field-fitting shall sustain its integrity under the given service conditions. The manufacturer shall document the test data that demonstrate the long-term integrity of the fitting.

5.3.1.3: The section shall be changed to the following:

The MPR shall be confirmed by burst pressure testing on at least five specimens. The 97.5 % lower prediction bound of the set of burst specimens shall be calculated using the student's t-distribution using the method in Annex G. For the MPR to be confirmed, the calculated 97.5 % lower prediction bound shall be greater than or equal to MPR/F_d . No single test specimen shall be below MPR/F_d .

5.3.3: The third paragraph shall be changed to the following:

The 97.5 % lower prediction bound of each set of burst specimens shall be calculated using the method of Annex G for the student's t-distribution.

5.4: After the second paragraph, the following shall be added to the list as a fifth bullet:

- Substitution of PE-RT for PE is permitted provided that both materials have the same material classification code (e.g., PE4710), and the temperature rating of the pipe with the substituted material is less than or equal to the original product MAOT.

Table 6: The table shall be changed to the following:

Test	Method	Frequency
Chemical Composition	ASTM A751 or equivalent	One per lot
Tensile Test	ASTM A370 or equivalent	Two per coil ^a
Dimensions		Two per coil ^a

^aA coil is a continuous length of steel reinforcement from the same forming process and heat treatment lot. If intermediate welds used to join coil sections for transport have been qualified by the subcontractor in accordance with the manufacturer's procedures, these welds may be kept during winding onto the pipe. If these welds have not been qualified, they shall be cut out of the coil during the winding of the pipe.

6.4.1: The section shall be changed to the following:

The manufacturer shall have a documented procedure that defines the start and end of a batch.

The manufacturer shall carry out either batch release tests according to 6.4.2 or hydrostatic testing according to 6.4.3 based on the following criteria:

For the purposes of this section, welds or reinforcement joining practices greater than or less than 1 % refer to the percentage of total reinforcement cross-sectional area affected at any point along the pipe.

- a) for pipe with welds or reinforcement joining practices greater than 1 %, hydrostatic testing in accordance with 6.4.3;
- b) for pipe with welds or reinforcement joining practices less than 1 %, hydrostatic testing in accordance with 6.4.3 or batch testing in accordance with 6.4.2.

7.1: The first paragraph shall be changed to the following:

The nominal diameter for sizes 3 in. and greater shall be in half-inch increments, and the minimum allowable inside diameter shall be equal to or greater than the nominal diameter minus $\frac{1}{2}$ in., as shown in Table 7. For a nominal diameter smaller than 3 in., the minimum allowable inside diameter shall be equal to or greater than the nominal diameter minus $\frac{1}{4}$ in.

8.5: The section shall be changed to the following:

Guidance for information that may be provided by the purchaser for a project is provided in Table A.1 of Annex A.

Bibliography: The following document shall be deleted, and the list shall be renumbered::

- [11] ASTM D1599, Test Method for Resistance to Short-Time Hydraulic Pressure of Plastic Pipe, Tubing, and Fittings