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Designation: ~~A1119 – 20<sup>e1</sup>~~ A1119 – 21

## Standard Specification for Welded Partially Corrugated Tube for Potable Water and General Service<sup>1</sup>

This standard is issued under the fixed designation A1119; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reappraisal. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reappraisal.

<sup>e1</sup> NOTE – Corrected 3.2 editorially in February 2021.

### 1. ~~Scope~~ Scope\*

1.1 This specification describes welded austenitic and duplex stainless steel tube on which the external and internal surface has been modified by a cold forming process to produce an intermittent corrugation for improved formability and resistance to seismic and other environmental distortions. The tubes are used for potable water service lines and other liquid delivery systems in nominal diameters from 1/2 to 2 in.

1.2 The tube sizes and thicknesses usually furnished to this specification are 0.625 to 2.125 in. outside diameter and 0.028 to 0.049 in., inclusive, in wall thickness.

1.3 The grades of ~~austenitic~~ austenitic, ferritic, and duplex stainless steels included in this specification shall conform to materials listed in the governing straight tube Specifications [A268/A268M](#), [A269/A269M](#),<sub>2</sub> or [A789/A789M](#). Selection will depend upon design and service requirements.

~~1.4 The following safety hazards statement pertains only to the test methods of this specification. This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.~~

1.4 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

### 2. Referenced Documents

#### 2.1 ASTM Standards:<sup>2</sup>

[A268/A268M Specification for Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service](#)

[A269/A269M Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service](#)

[A789/A789M Specification for Seamless and Welded Ferritic/Austenitic Stainless Steel Tubing for General Service](#)

[A1016/A1016M Specification for General Requirements for Ferritic Alloy Steel, Austenitic Alloy Steel, and Stainless Steel Tubes](#)

[A1047/A1047M Test Method for Pneumatic Leak Testing of Tubing](#)

[E384 Test Method for Microindentation Hardness of Materials](#)

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee A01 on Steel, Stainless Steel and Related Alloys and is the direct responsibility of Subcommittee A01.10 on Stainless and Alloy Steel Tubular Products.

Current edition approved Nov. 15, 2020 Dec. 1, 2021. Published December 2020/January 2022. Originally approved in 2020. Last previous edition approved in 2020 as A1119 – 20<sup>e1</sup>. DOI: 10.1520/A1119-20E01-10.1520/A1119-21.

<sup>2</sup> For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

\*A Summary of Changes section appears at the end of this standard