



Designation: A 269 – 02a4

## Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service<sup>1</sup>

This standard is issued under the fixed designation A 269; 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 reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

*This standard has been approved for use by agencies of the Department of Defense.*

### 1. Scope\*

1.1 This specification covers grades of nominal-wall-thickness, stainless steel tubing for general corrosion-resisting and low- or high-temperature service, as designated in Table 1.

1.2 The tubing sizes and thicknesses usually furnished to this specification are ¼ in. (6.4 mm) in inside diameter and larger and 0.020 in. (0.51 mm) in nominal wall-thickness and heavier.

1.3 Mechanical property requirements do not apply to tubing smaller than ⅛ in. (3.2 mm) in inside diameter or 0.015 in. (0.38 mm) in thickness.

~~NOTE 1—When the impact test criterion for a low-temperature service would be 15 ft-lbf (20 J) energy absorption or 15 mils lateral expansion, some of the austenitic stainless steel grades covered by this specification are accepted by certain pressure vessel or piping codes without the necessity of making the actual test. For example, Grades 304, 304L, and 347 are accepted by the ASME Pressure Vessel Code, Section VIII Division 1, and by ANSI B31.3, for service at temperatures as low as -425°F (-254°C) without qualification by impact tests. Other AISI stainless steel grades are usually accepted for service temperatures as low as -325°F (-198°C) without impact testing. Impact 1—Additional testing may, under certain circumstances, be required. For example, materials with chromium or nickel content outside the AISI ranges, and requirements may apply for material with carbon content exceeding 0.10 %, are required to be impact tested under the rules of use in ASME Section VIII Division 1 when services temperatures are lower than -50°F (-46°C). B31.3 applications.~~

1.4 Optional supplementary requirements are provided and, when one or more of these are desired, each shall be so stated in the order.

1.5 The values stated in inch-pound units are to be regarded as the standard.

<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.

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