



Designation: B 775 – 012

Standard Specification for General Requirements for Nickel and Nickel Alloy Welded Pipe¹

This standard is issued under the fixed designation B 775; 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.

¹ This specification is under the jurisdiction of ASTM Committee B02 on Nonferrous Metals and Alloys and is the direct responsibility of Subcommittee B02.07 on Refined Nickel and Cobalt and Their Alloys.

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1. Scope

1.1 This specification contains various requirements that, with the exception of Section 5 and Section 10, are mandatory requirements to the following ASTM nickel and nickel alloy, longitudinally welded piping specifications:²

Title of Specification	ASTM Designation ²
Welded UNS N08020, N08024, and N08026 Alloy Pipe	B 464
Welded Nickel-Iron-Chromium Alloy Pipe	B 514
Welded Nickel-Chromium-Iron-Alloy (UNS N06600, UNS N06603, UNS N06025 and UNS N06045) Pipe	B 517
Welded Nickel and Nickel-Cobalt Alloy Pipe	B 619
UNS N08904, UNS N08925, and UNS N08926 Welded Pipe	B 673
UNS N08367 Welded Pipe	B 675
Nickel-Alloy (UNS N06625, N06219, and N08825) Welded Pipe	B 705
Ni-Cr-Mo-Co-W-Fe-Si Alloy (UNS N06333) Welded Pipe	B 723
Welded Nickel (UNS N02200/UNS N02201) and Nickel Copper Alloy (UNS N04400) Pipe	B 725

1.2 One or more of the test requirements of Section 5 apply only if specifically stated in the product specification or in the purchase order.

1.3 In case of conflict between a requirement of the product specification and a requirement of this general specification, only the requirement of the product specification needs to be satisfied.

1.4 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.5 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 become familiar with all hazards including those identified in the appropriate Material Safety Data Sheet for this product/material as provided by the manufacturer, to establish appropriate safety and health practices, and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards:

B 880 Specification for General Requirements for Chemical Check Analysis Limits for Nickel, Nickel Alloys and Cobalt Alloys²

E 8 Test Methods for Tension Testing of Metallic Materials³

E 18 Test Methods for Rockwell Hardness and Rockwell Superficial Hardness of Metallic Materials³

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications⁴

E 39 Test Methods for Chemical Analysis of Nickel⁵

² Annual Book of ASTM Standards, Vol 02.04.

³ Annual Book of ASTM Standards, Vol 03.01.

⁴ Annual Book of ASTM Standards, Vol 14.02.

⁵ Discontinued;—See see 1996 Annual Book of ASTM Standards, Vol 03.05.