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ASTM A53-90 Specification for pipe, steel, black and hot-dipped, zinc-coated welded and seamless

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Abbreviation

ASTM A53-90

Version

Revision 90B

Valid from

28/12/1990

Information provider

IHS Markit

Author

American Society of Testing and Materials

Information type

ASTM Standard

Format

PDF, Hard copy

Cited By

[This resource is cited by 4 documents \(show Citations\)](#)

Cites

[This resource cites 12 documents \(show Citations\)](#)

Description

This specification covers seamless and welded black and hot-dipped galvanized steel pipe in NPS 1/8 to NPS 26 [DN 6 to DN 650], inclusive with nominal wall thickness.

Pipe ordered under this specification is intended for mechanical and pressure applications and is also acceptable for ordinary uses in steam, water, gas, and air lines. It is suitable for welding, and suitable for forming operations involving coiling, bending, and flanging, subject to qualifications.

Scope

This specification covers the following types and grades:

- Type F—Furnace-butt-welded, continuous welded Grade A,
- Type E—Electric-resistance-welded, Grades A and B, and
- Type S—Seamless, Grades A and B.

This specification covers seamless and welded black and hot-dipped galvanized steel pipe in NPS 1/8 to NPS 26.

The steel categorized must be open-hearth, basic-oxygen or electric-furnace processed and must have the following chemical requirements:

- carbon,
- manganese,
- phosphorus,
- sulfur,
- copper,
- nickel,
- chromium,
- molybdenum, and
- vanadium.

The tubing shall undergo a seamless or welding process. Tension, bend, and flattening tests shall be performed to make sure that it must adhere to the mechanical properties of the standard.

The hydrostatic test shall be applied, without leakage through the weld seam or the pipe body.

Nondestructive electric test shall be made to make sure that the full volume of the pipe must be in accordance with the standard.

The purchaser shall have the right to perform any of the inspections and tests set forth in this specification where deemed necessary to ensure that the pipe conforms to the specified requirements.

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- [G10/AS1 \(First Edition, Amendment 8\)](#)

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- [G10/AS1 \(First Edition, Amendment 5\)](#)

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This document CITES:

Other

- [ANSI/ASME B1.20.1:1983](#)

ASTM A53-90 cites ANSI/ASME B1.20.1:1983 (R2006) Pipe threads general purpose (Inch)

- [ASTM A370-88](#)

ASTM A53-90 cites ASTM A370-88 Standard Methods And Definitions For Mechanical Testing Of Steel Products

- [ASTM A530/A530M-89](#)

ASTM A53-90 cites ASTM A530/A530M-89 Standard Specification for General Requirements for Specialized Carbon and Alloy Steel Pipe

- [ASTM A700-81](#)

ASTM A53-90 cites ASTM A700-81 Standard Practices for Packaging, Marking, and Loading Methods for Steel Products for Domestic Shipment

- [ASTM A751-90](#)

ASTM A53-90 cites ASTM A751-90 Standard Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products

- [ASTM A865-89](#)

ASTM A53-90 cites ASTM A865-89 Standard Specification for Threaded Couplings, Steel, Black or Zinc-Coated (Galvanized) Welded or Seamless, for Use in STEEL Pipe Joints

- [ASTM A90-81 \(Re-approved 1991 \)](#)

ASTM A53-90 cites ASTM A90-81 Standard Test Method for Weight of Coating on Zinc-Coated (Galvanized) Iron or Steel Articles (R 1991)

- [ASTM B6-88](#)

ASTM A53-90 cites ASTM B6-88 Standard Specification for Zinc

- [ASTM E213-86](#)

ASTM A53-90 cites ASTM E213-86 STANDARD PRACTICE FOR ULTRASONIC EXAMINATION OF METAL PIPE AND TUBING

- [ASTM E309-83](#)

ASTM A53-90 cites ASTM E309-83 STANDARD PRACTICE FOR EDDY-CURRENT EXAMINATION OF STEEL TUBULAR PRODUCTS USING MAGNETIC SATURATION (R1987)

- [ASTM E570-84](#)

ASTM A53-90 cites ASTM E570-84 Standard Practice for Flux Leakage Examination of Ferromagnetic Steel Tubular Products

- [ASTM E59-89](#)

ASTM A53-90 cites ASTM E59-89 Standard Practice for Sampling Steel and Iron for Determination of Chemical Composition

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