



Designation: A 792/A 792M – 023

Standard Specification for Steel Sheet, 55 % Aluminum-Zinc Alloy-Coated by the Hot-Dip Process¹

This standard is issued under the fixed designation A 792/A 792M; 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 55 % aluminum-zinc alloy-coated steel sheet in coils and cut lengths.
- 1.2 This product is intended for applications requiring corrosion resistance or heat resistance, or both.
- 1.3 The product is produced in a number of designations, types, and grades which are designed to be compatible with differing application requirements.
- 1.4 Product furnished under this specification shall conform to the applicable requirements of the latest issue of Specification A 924 /A 924M, unless otherwise provided herein.
- 1.5 This specification is applicable to orders in either inch-pound units (as A 792) or SI units (as A 792M). Values in inch-pound and SI units are not necessarily equivalent. Within the text, SI units are shown in brackets. Each system shall be used independent of the other.
- 1.6 Unless the order specifies the “M” designation (SI units), the product shall be furnished to inch-pound units.
- 1.7 The text of this specification references notes and footnotes that provide explanatory material. These notes and footnotes, excluding those in tables and figures, shall not be considered as requirements of this specification.
- 1.8 *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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

- A 90/A 90M Test Method for Weight [Mass] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings
- A 568/A 568M Specification for Steel, Sheet, Carbon, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, General Requirements for
- A 902 Terminology Relating to Metallic Coated Steel Products
- A 924/A 924M Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process
- E 517 Test Method for Plastic Strain Ratio r for Sheet Metal
- E 646 Test Method for Tensile Strain-Hardening Exponents (n -Values) of Metallic Sheet Materials

3. Terminology

- 3.1 *Definitions*—See Terminology A 902 for definitions of general terminology relating to metallic-coated hot-dip products.
- 3.2 *Definitions of Terms Specific to This Standard:*
 - 3.2.1 *regular spangle*—the unaltered 55 % aluminum-zinc (Al-Zn) crystal structure that occurs during normal solidification of a hot-dip coated steel sheet.
 - 3.2.2 *high temperature steel*—a product intended for use in elevated temperature applications.

4. Classification

- 4.1 The material is available in several designations, as follows:
 - 4.1.1 *Commercial Steel*— CS Types A, B, and C,
 - 4.1.2 *Forming Steel*— FS,

¹ This specification is under the jurisdiction of ASTM Committee A05 on Metallic-Coated Iron and Steel Products and is the direct responsibility of Subcommittee A05.11 on Sheet Specifications.

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