



Designation: A 506 – 004

Standard Specification for Alloy and Structural Alloy Steel, Sheet and Strip, Hot-Rolled and Cold-Rolled¹

This standard is issued under the fixed designation A 506; 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 hot-rolled and cold-rolled alloy and structural alloy-steel sheet and strip. Alloy steel is furnished to chemical composition requirements and is intended primarily for general or miscellaneous use where bending and moderate forming is a requirement. Structural alloy steel is furnished to chemical composition requirements and to specific mechanical property requirements which may include tension tests, hardness tests, or other commonly accepted mechanical tests.

1.2 If material of a higher degree of uniformity of internal soundness and freedom from surface imperfections is required, reference should be made to Specification A 507.

1.3 Alloy and structural alloy-steel sheet and strip are not produced to internal cleanliness requirements. Normally surface imperfections are not objectionable, and a good finish is not a prime requirement.

1.4 The formability of structural alloy steel decreases with increasing yield strength or hardness. Therefore, product design in relation to the mechanical properties of the grade used must be considered.

1.5 The material covered by this specification may be furnished in several conditions: heat treatments, surface conditions, and edges, as specified herein, in coils or cut lengths.

1.6 The values stated in inch-pound units are to be regarded as the standard. SI units are provided for information only.

¹ This specification is under the jurisdiction of ASTM Committee A-1 A01 on Steel, Stainless Steel, and Related Alloys, and is the direct responsibility of Subcommittee A01.19 on Steel Sheet and Strip.

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