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ASTM A514/514M-94 Standard Specification for High-Yield-Strength, Quenched and Tempered Alloy Steel Plate, Suitable for Welding

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Abbreviation

ASTM A514/514M-94

Valid from

15/06/1994

Information provider

IHS Markit

Author

American Society of Testing and Materials

Information type

Standard

Format

PDF & Hard copy

Cited By

[This resource is cited by 1 document \(show Citations\)](#)

Description

This specification covers high-yield, quenched, and tempered alloy steel plates for use in welded bridges and other structures. Plates shall be subjected to heat treatment to conform to the tensile and hardness requirements for thickness, tensile strength, yield strength, elongation, reduction of area, and Brinell hardness. Heat and product analysis shall conform to the chemical requirements for carbon, manganese, phosphorus, sulfur, silicon, nickel, chromium, molybdenum, vanadium, titanium, zirconium, copper, boron, and columbium. Conformance to required mechanical properties shall be determined by tension and hardness tests.

Scope

This specification covers quenched and tempered alloy steel plates of structural quality in thicknesses of 6 in. [150 mm] and under intended primarily for use in welded bridges and other structures.

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- [NZS 3404 Parts 1 and 2:1997](#)

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