



Data Sheet

A 514

Category:

Alloy

Other common names:

T-1, 100 min yield, 100 ksi, 690T

Description:

A quench and tempered high strength steel used in many applications. Some of the most common uses are applications where high strength and low weight are critical, high impact applications, and high tensile and yield strength uses.

The grades vary depending on thickness and Tassco Steel stocks this material as followed:

Grade B: Up to 1.25"

Grade H: Over 1.25" thru 2"

Grade F: Over 2" thru 2.50"

Grade Q: Over 2.50" thru 6"

Mechanical Properties & Tolerances:

Tensile Strength: Up to 2.50" = 110 to 130 ksi

Over 2.50" = 100 to 130 ksi

Yield Strength: Up to 2.50" = 100 ksi min.

Over 2.50" = 90 ksi min.

Elongation: Up to 2.50" = 18% in 2"

Over 2.50" to 6" = 16% in 2"

Brinell: Typical Range = 235 to 295 BHN (usually not noted on mill test reports)