



THAMES
STOCKHOLDERS

Alloy 440C

MARTENSITIC STAINLESS STEEL

Page: 1 of 1



Product Overview

Alloy 440C is commercially more available when compared to 440B and offers the highest carbon content of all 440 series products.

440C finds use in applications where increased strength with moderate corrosion resistance is essential. The alloy has enough chromium content for 440C to retain its status as stainless steel, regardless of the high carbon levels. Once heat-treated, the alloy is harder and more wear-resistant than other stainless steels. Machining is straightforward in the annealed condition, although much more problematic once hardened.

Application examples include bushes, bearings and valve parts. We stock 440C martensitic stainless steel in round bars.

Key Features

- Higher strength
- Higher carbon content
- Moderate wear resistance
- The hardest stainless steel after heat-treatment

Applications

- Bushings
- Bearings
- Structural aircraft components
- Valve parts

* Chemical Composition (weight, %)

	C	Mn	P	S	Si	Cr	Mo
Min.	0.95		0.04	0.03	1.00	16.00	
Max.	1.20	1.00	0.04	0.03	1.00	18.00	0.75

* Properties as per ASTM A276

* Mechanical Properties

Hardness in the supply condition	-	269 HBW (28 HRC) max. (hot-finished)
Hardness after heat-treatment	-	285 HBW (30 HRC) max. (cold-finished)
	-	58 HRC min

* Properties as per ASTM A276



Thames Stockholders

Unit 5W, Woodall Road, Redburn Industrial Estate
Ponders End, Enfield, Middlesex EN3 4LQ

Tel: +44 (0)20 8805 3282



sales@thamesstock.com



www.thamesstock.com

All information in our data sheet is based on approximate testing and is stated to the best of our knowledge and belief. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of trading.