

STAINLESS STEEL - 431

RELATED SPECIFICATIONS:

Germany	W.Nr 1.4057 X17CrNi16-2
Great Britain	BS970 – Part 3 – 1991 431S29
Japan	JIS G 4303 SuS 431
USA	ASTM A276-98b 431
	SAE 51431 AISI 431
	UNS S43100

DESCRIPTION:

431 is a hardenable martensitic, nickel bearing grade, which has the best corrosion resistance properties of all martensitic grades. Due to excellent tensile strengths it is particularly suited for use in pump shafts, valve stems, outboard motor drive shafts and other similar applications. Steel carried in stock is in a pre-hardened and tempered condition ready for use.

APPLICATIONS:

Nuts and bolts, propeller shafting, pump shafts and marine hardware.

CHEMICAL ANALYSIS:

	C %	Si %	Mn %	P %	S %	Cr %	Ni %
Min.	0.12	-	-	-	-	15.00	1.25
Max.	0.20	1.00	1.00	0.04	0.03	17.00	2.50

TYPICAL MECHANICAL PROPERTIES:

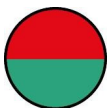
Temper	Yield Strength 0.2% Proof MPa	U.T.S. MPa	Elongation in 50mm % min.	Hardness Brinell
Annealed				285 max
Condition T	665 min	850-1000	12	248 – 302

SIZES AVAILABLE:

Available stock is normally supplied in a hardened and tempered Condition "T" to AS1444 standard. Round bars supplied cold drawn to h9 condition up to 25.4mm, smooth turned and polished up to 127mm and peeled over 127mm.

ALSO AVAILABLE IN PUMP SHAFT QUALITY

Size Range: 6.35MM – 260MM – 220mm



COLOUR CODE: SIGNAL RED AND JADE END