

431S29 / 1.4057

Steel Description

431S29 / 1.4057 is a high chromium, low nickel, martensitic stainless steel and is generally supplied in the hardened and tempered condition. It is characterised by very good corrosion resistance in atmospheric corrosive environments, with good resistance to mild marine and industrial atmospheres and is resistant to many organic materials, including nitric acid and petroleum products. 431S29 / 1.4057 is used extensively for parts requiring a combination of high tensile strength, good toughness and corrosion resistant properties. Typical applications are: Aircraft parts and components, nuts & bolts, fasteners, pump & propeller shafts, studs and valve parts.

	EN 10088-3	BS970: 1991	COLOUR CODE	DESCRIPTION	
1.4057		431529		Martensitic freecutting stainless steel	
CHEMICAL ANALYSIS		INTERNATIONAL SPECIFICATION COMPARISON		QUICK VIEW SYSTEM	
Car	0.12 / 0.20	BRITISH BS 970:1991	431529	MACHINEABILITY	60
Sil	0.80 max	BRITISH BS 970:1955		WELDABILITY	Not recommended
Mang	1.00 max	GERMAN DIN		HARDENABILITY	Not applicable
Phos	0.040 max	FRENCH AFNOR		SELECTION GUIDE AND	Used in mildly corrosive conditions. General
Sul	0.030 max	SWEDISH SS			engineering applications
Chr	15.0 / 18.0	AMERICAN SAE			
Moly	-	EUROPEAN STEEL NO.	1.4057		
Nick	2.00 / 3.00	EUROPEAN STEEL NAME	X20CRNi17-2		
		EUROPEAN STANDARD	EN10088-3		

SIZE RANGE SUMMARY							
	Rounds	IMP	7/8" - 2" dia				

SEE STOCK RANGE FOR SPECIFIC SIZES.