



We are Local Manufacturer of Customized Fasteners.

Crystal International Fasteners:

The Leading Industrial Fasteners Supplier for Construction, Oil & Gas Industry **Crystal International FASTENERS** is committed to quality and delivery at the best possible prices. Today we have well equipped factory with latest technology as well as skilled and experienced workforce. This helps to perfect our products to the minutest of details, achieving near zero-defect results, assuring the High Quality & Life Long Durability.

We strictly follow **International Standards like DIN, ISO, ASTM, BS, ANSI** etc. for production. The modern Lab Equipment's facilitate in maintaining quality and constantly innovating our production methods, thereby enhancing customer satisfaction. We have expertise not only in standard products, but also in made-to-order customized products.

We are proud to say that we excel in various coatings to meet the customer requirements. To name a few: Hot Dip Galvanizing, Electro Galvanizing (Zinc & Copper Cadmium), and PTFE Coating.

Backed by fleet of vehicles no destination is far enough and deliveries can reach on time. We have been associated with several prestigious projects in GCC.

- Stud bolt assemblies
- Studding
- Hex nuts
- 12 point (ferry head) bolts
- Hex bolts
- Hex setscrews
- Socket cap screw
- Hex bolt blanks
- Socket cap screw blanks



STUDBOLT STOCKS THE FOLLOWING FINISHED AND SEMI-FINISHED FASTENERS:

- Stud bolt assemblies
- Hex nuts
- Hex bolts
- Socket cap screws
- Socket cap screw blanks
- Studding
- 12 point (ferry head) bolts
- Hex setscrews
- Hex bolt blanks



PRODUCT DIMENSIONAL STANDARDS

STUDBOLTS	ANSI B16.5	BS4882
	DIN 976	
STUDDING	DIN 975	
HEX BOLTS & BLANKS	ANSI B18.2.1	DIN 931
SOCKET CAPSCREWS & BLANKS	ANSI B18.3	DIN 912
	1960 Series	
HEX NUTS	ANSI B18.2.2	DIN 934 H=D
12 POINT FERRY HEAD BOLTS	IFI115	

THREAD FORMS

ALL FASTENERS CAN BE SUPPLIED WITH THE FOLLOWING THREAD FORMS:		
METRIC	Metric fine	Metric coarse
UN	UNC	UNS
	UN8	UNF
WHITWORTH	BSW	BSF

ANCILLARY PROCESSES

HEAT TREATMENT	Quenching and tempering	Thru Hardening
	Normalising	Solution Annealling
	Nitriding	Precipitation Hardening
	Case Hardening	
COATINGS	Zinc	Phosphate
	Zinc Nickel	Molykote
	Hot Dip Galv	Sherardizing
	PTFE/Xylan/Xylar/Teflon	Cadmium

STUDBOLT CARRIES OVER £3M OF PETRO-CHEMICAL GRADE MATERIALS.

All stock is controlled by the company's fully integrated ERP System ensuring real-time stock control.



PETRO-CHEMICAL BOLTING GRADES

ASTM A193	B6	B8M class 1 & 2
	B7	B8T class 1 & 2
	B7M	B8C
	B8 class 1 & 2	
ASTM A320	L7	L43
	L7M	
ASTM A453	660A	660D
	660B	
ASTM A182, A276, A479	31803	32760 SA, FG, FLT

PETRO-CHEMICAL NUT GRADES

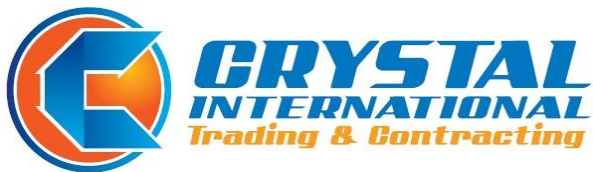
ASTM A194	2H	8
	2HM	8M
	4	8A
	6	8MA
	7	8T
	7M	8C
ASTM A453	660A	660D
	660B	
ASTM A182, A276, A479	31803	32760

MATERIALS

EXOTIC ALLOYS	Hastelloy C22/C276	Inconel 600/625/718/800/925
	Monel 400/K500	
	Nitronic 50/60	
DUPLEX & SUPER DUPLEX	32760 (Zeron 100*) SA, FG, FLT	31803 (1.4462)
	32750	31254 (254SMO)
	32550 (Ferrallium)	

HEAT RESISTING GRADES	Durehete 950, 1055	X22CrMoV12.1 (1.4923)
	21CrMoV5.7	X19CrMoVNbN11.1 (1.4913)
	Jethete X19	B16
	Esshete 1250	1.7729
	Nimonic 80A/90	
<u>STAINLESS STEELS</u> 	304	347
	310	410
	316	420
	317	431
	321	904L (Uranus B6)
PRECIPITATION HARDENED <u>STAINLESS STEELS</u> 	17/4ph (630)	FV520B
CARBON & ALLOY STEELS	Mild steel	817M40 (EN24)
	080M40 (EN8)	826M40 (EN26)
	605M36 (EN16)	AISI 4140
	709M40 (EN19)	AISI 4340
NON-FERROUS	Hiduron	Copper
	Marinel	Aluminium
	Cupro nickel 70/30 &	C63000

	90/10	
	Silicon aluminium bronze	Manganese bronze
	Phosphor bronze	Aluminium bronze



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