

# RELIABLE PIPES & TUBES LTD.

4130 Pipes / Fittings / Flanges / Roundbars



## 4130 PIPES & FITTINGS

This low alloy steel containing nominally 0.3% carbon, 1% chromium and 0.2% molybdenum is used widely in oil patch applications. It is similar to 4140 which has a higher carbon level giving 4130 improved weldability in comparison to 4140, though this is achieved at the expense of through thickness strength. The hardenability limitations of this grade (depth to which it will harden / obtain the specified mechanical properties after heat treatment) must always be taken into account when designing and selecting equipment.

**Products:** Pipes, Fittings, Flanges, Forging, Roundbars

**Grades:** LOW ALLOY STEEL, ASTM A 519 GR. 4130 / 4140, API 5CT L80 (MECHANICAL PROPERTIES) & AS PER AISI 4130 / 4140 (CHEMICAL PROPERTIES)

**Sizes:** PIPES- 2" NB TO 12" NB & ANY SPECIAL ODD SIZES, THICKNESS- SCH 40 TO SCH XXS ALSO HIGH THK

**Supplementary Requirement:** NACE MR0175 / MR0103 ISO 3183 / NACE TM0284, YS - MIN 85,000 PSI, UTS - 1,10,000PSI WITHSTANDING 15,000 PRESSURE.

**DELIVERY CONDITION:** ANNEALED | NORMALIZED | STRESS RELIEVED | QUENCHED & TEMPERED

**Certificate:** EN 10204 3.1 & EN 10204 3.2

We specialize and have extensive stock of 4130 pipes, fittings, flanges, round bars and expertise in fast track delivery of large diameter and heavy wall fittings in wide range of materials.

Exporting to : USA | Australia | Europe | UAE | Russian Union  
Africa | Saudi Arabia | Kuwait | Iraq | Yemen | Qatar  
Singapore | Malaysia | Indonesia | Vietnam | Korea

Corp Off. : C-16, Anand Bhuvan, 163/165, V. P. Road, Mumbai - 400 004. Maharashtra, India.

**Unit No. 1**

Plot No. 1112 / 1113, Road No. 12, Shree Opera House,  
Kalamboli Steel Market, Dist. Raigad, Maharashtra.

**Unit No. 2**

Plot No. 555, Road No. 4, KWC, Kalamboli,  
Dist. Raigad, Maharashtra, Pin Code - 410 218.

**Unit No. 3**

Plot No. 726, Road No. 6, Opp. Disma Dharam Kata,  
Kalamboli, Dist. Raigad, Maharashtra.

**Unit No. 4**

E-10/3, MIDC, Near Technova Company, Taloja,  
Navi Mumbai - 410 208.

Mr. Rahul Mehta : +91 9833938715 | Mr. Abhilash Nair : +91 9324233293 Tel.: +91-22-43431313 / 23894513 / 14 / 15 | Fax : +91-22-23894511

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## Fittings



### 7.5 K / 10 K Working Pressure AISI 4130

Fitting	Size / W.T.
90° Long Sweep Elbow	Our Stock Range includes 2"NB SCH XXS Thro 6"NB SCH XXS 6.75"O.D. x 5.0"ID & 4.5"O.D. x 3.0"ID
45° Long Sweep Elbow	
90° 3D Double Back Elbow	
45° 3D Double Back Elbow	
Long Sweep Elbow	
Long Sweep Full Flow Tee	
Gooseneck	
90° Long Radius Elbow	
45° Long Radius Elbow	
ANSI B16.9 Tees	

### 15 K Working Pressure AISI 4130

Fitting	Size / W.T.
90° Long Sweep Elbow	Our Stock Range includes 5.5"O.D. x 3.0"ID 3.5"O.D. x 2.0"ID 5"NB 30mmWT & 6"NB 36mmWT
45° Long Sweep Elbow	
90° 3D Double Back Elbow	
45° 3D Double Back Elbow	
Long Sweep Elbow	
Long Sweep Full Flow Tee	
Gooseneck	
90° Long Radius Elbow	
45° Long Radius Elbow	
ANSI B16.9 Tees	

Max. Working Pressure	7500 PSI	10000 PSI	15000 PSI
Test Pressure (PSI)	11,250	22,500	22,500
Operating Temperature Range	-60 to +345 Deg C	-60 to +345 Deg C	-60 to +345 Deg C
Min Yield	>80,000 PSI	>80,000 PSI	>80,000 PSI
Min. Tensile	105,000 PSI	105,000 PSI	105,000 PSI
Material	ASTM A234 Gr 4130	ASTM A234 Gr 4130	ASTM A234 Gr 4130

Property	UNS AISI 4130
Tensile Strength	105,000 PSI 725 MPa
Yield Strength	>80,000 PSI >551 MPa
Impact Value °C	42J min. av. -50
Hardness (Max)	237 HB
Elongation in 2" or 50mm	18%

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## Round Bars



Grade	Specification	Size (Dia) (Thickness) X (Bar Width)	Condition
4130 Round Bar	MIL-S-6758	4130 Bar Dia 187" to 20" Round	4130
4130 Heat Treated Round Bar	AMS-S-6758	4130 Round Bar Length: 72" - 144" Rdom Lgth	Hot Rolled
4130 Rectangular Bar	AMS 6370	4130 Flat Bar Thickness: 250" ~ 5" Thick	Rough Turned/ Normalized/ and Tempered
4130 Flat Bar	AMS 6348	4130 Flat Bar Width: 1" to 6" Wide	C4, D4/Cold Finished
4130 Hex Bar	AMS 6446	4130 Hex Bar	
4130 Forged Bar	AMS 2301		
4130 Square Bar	ASTM A331 ASTM A322		
4140 Round Bar	AMS-2301, AMS-S-5626	4140 Bar Dia 187" to 20" Round	Normalized/ Annealed
4140 Heat Treated Round Bar	AMS-2304, ASTM-A-331	4140 Round Bar Length: 72" - 144" Rdom Lgth	
4140 Rectangular Bar	AMS-6349, MIL-S-5626	4140 Flat Bar Thickness: 250" ~ 5" Thick	
4140 Flat Bar	AMS 6382	4140 Flat Bar Width: 1" to 6" Wide	
4140 Hex Bar		4140 Hex Bar	
4140 Forged Bar			
4330 Mod, Round Bar	MIL-S-8699, AMS 6427	4330 Bar Dia 187" to 20" Round	Hot Rolled, Annealed/ Quenched and Tempered
4330 Vac Melt Bar	AMS 6411	4330 Round Bar Length: 72" - 144" Rdom Lgth	
4330 Rectangular Bar	AMS 2301, BMS7-27 AMS 2300, BMS7-122	4330 Flat Bar Thickness: 250" ~ 8" Thick	
4330 Forged Bar	AMS 6411, EMS 96242	4330 Flat Bar Width: 1" to 6" Wide	
4130 Heat Treated Round Bar	CE 0906, FMS 1012 GM 1010, ASTM A322 AMS-H-6875, CPS 4911 Mil-F-7190, AMS-F-7190 DMS 1800 Class 1 AMS-STD-2154 CL A	4330 Hex Bar	
4340 Mod, Round Bar	AMS 6257, AMS 6419	4340 Bar Dia 187" to 18" Round	Hot Rolled, Annealed/ Quenched and Tempered
4340 Norm & Temp Bar	AMS 6417, BAC 5617	4340 Round Bar Length: 72" - 144" Rdom Lgth	
4340 Vac Melt Round Bar	AMS 6414, AMS 6415	4340 Flat Bar Thickness: 250" ~ 5" Thick	
4340 Square Bar	BMS7-26, AMS 2300	4330 Flat Bar Width: 1" to 6" Wide	
4340M Rectangular Bar	GM 1012, CPS 4911	4330 Hex Bar	
4340 Flat Bar	C-05-1190, AMS 6409		

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## Flanges



We offer a large range of API 6A and ANSI forged swivel flanges, Blind Flanges, Slip-on Flanges and weld neck flanges in 4130 carbon steel to suit 2" to 6" nominal bore XXS pipe with pressure rating below. The API 6A specification requires a rigorous and unique quality system including stringent dimensional and NDT control. The application of an API monogram is that you, the client will be guaranteed of total compliance with the API specifications.

Max. Working Pressure	2000 PSI	3000 PSI	5000 PSI	10000 PSI	15000 PSI	20000 PSI
Test Pressure (PSI)	3,000 PSI	4,500 PSI	7,500 PSI	15,000 PSI	22,500 PSI	30,000 PSI
Product Specification Levels	1, 2, 3 & 4	1, 2, 3 & 4	1, 2, 3 & 4	1, 2, 3 & 4	1, 2, 3 & 4	1, 2, 3 & 4
	K (-60 Deg C)	K (-60 Deg C)	K (-60 Deg C)	K (-60 Deg C)	K (-60 Deg C)	K (-60 Deg C)
API Temperature Rating	to	to	to	to	to	to
	Y (+345 Deg C)	Y (+345 Deg C)	Y (+345 Deg C)	Y (+345 Deg C)	Y (+345 Deg C)	Y (+345 Deg C)

### Integral, Blind, Target Bling & Test Flanges

Min Yield	60,000 PSI	60,000 PSI	60,000 PSI	60,000 PSI	75,000 PSI	75,000 PSI
Min. Tensile	85,000 PSI	85,000 PSI	85,000 PSI	85,000 PSI	95,000 PSI	95,000 PSI
Material	API 60K	API 60K	API 60K	API 60K	API 75K	API 75K

### Weld Neck Flanges

Min Yield	45,000 PSI	45,000 PSI	45,000 PSI	60,000 PSI	75,000 PSI	75,000 PSI
Min. Tensile	70,000 PSI	70,000 PSI	70,000 PSI	85,000 PSI	95,000 PSI	95,000 PSI
Material	API 45K	API 45K	API 45K	API 60K	API 75K	API 75K

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