ENGINEERING STEELS + ALLOYS

HYDRAULIC & PNUEMATIC FEEDLINE TUBE

Hydraulic & Pnuematic feedline tube is a cold drawn seamless, low carbon steel tube supplied in the normalised condition with a typical low tensile strength of around 400 Mpa, and a typical high elongation of around 45%.

Characterised by excellent weldability, and excellent formability ensuring ease of bending and flaring.
NB. Tubes can be bent (U shaped) to a radius of 2.5 x outside diameter minimum.
The normalising is carried out at 925 °C in a controlled atmosphere furnace resulting in a bright finish.
All tubes are square cut into fixed lengths; imperial diameters to 6.096 metres (20 foot), and metric diameters into 6.000 metre lengths. Ends are deburred internally and externally, and fitted with plastic end caps to stop entry into the bore of any foreign matter. The ID and OD are lightly oiled.
Feedline tube is used extensively by the hydraulic and pneumatic industries, and is also employed by other industry sectors for a wide range of applications.
Typical applications are: Agricultural Equipment, Food Processing Equipment, Mining and other Earth Moving Equipment, Transport and Waste Disposal Equipment etc.

Colour Code	Stocked Sizes
None	Stocked Sizes Chart

Related Specifications	
France	NF A49-330 TU37b
Germany	W.Nr 1.0255 DIN 2391/C (DIN 1630) St 37-4
USA	ASTM A179/A450 SAE J524 C1010

Chemical Composition		
	Min. %	**Max %**
Carbon	0	0.17
Silicon	0	0.35
Manganese	0.35	-
Phosphorous	0	0.04
Sulphur	0	0.04

Mechanical Property Requirements - Normalised (as supplied) to St 37-4		
Tensile Strength Mpa	Min	350
	Max	480
Yield Strength Mpa (Min.)		235
Elongation % (Min.)		25

Typical Mechanical Properties - Normalised to St 37-4	
Tensile Strength Mpa	400
Yield Strength Mpa	285
Elongation %	45

Machining

Feedline tubes are readily machineable due to the cold drawn and normalised structure. All operations may be carried out satisfactorily as per machine manufacturers recommendations for suitable tool type - feeds and speeds.

Welding

Feedline tubes have excellent weldability due to their low carbon content, and can be readily welded by all of the standard welding procedures.
Welding Procedure
A pre-heat or post-heat is not generally required. Low carbon electrodes, similar to the parent metal are recommended. please consult your welding consumables supplier for suitable electrodes etc.