

Material Grade: **LF2**
 Material Condition(s): **Untreated / Normalised / Normalised and Tempered/ Quench and Tempered**
 Surface Finish: **As rolled / As forged**

Associated Standard: **ASTM A350**

Description:

A general carbon steel which is readily weldable and possess good impact resistance. The material is capable of through hardening by quenching and tempering on limited sections but is more commonly supplied in the normalized condition. Machinability is similar to that of mild steel.

Typical applications: **Flanges, fittings, applications for cold temperature service where corrosion isn't a concern**

1. STEELMAKING

	<u>C</u>	<u>Si</u>	<u>Mn</u>	<u>S</u>	<u>P</u>	<u>Cr</u>	<u>Ni</u>	<u>Mo</u>	<u>Cu</u>	<u>V</u>	<u>Cb (Nb)</u>	<u>Cr + Mo</u>	<u>Cu + Ni + Cr + V + Mo</u>
Min		0.15	0.60										
Max	0.30	0.30	1.35	0.04	0.035	0.30	0.40	0.12	0.40	0.08	0.02	0.32	1.0

2. TYPICAL MECHANICAL PROPERTIES

Test type	Tensile and hardness test (at room temperature)						Impact test (KV)	
	Yield (Re)	0.2 % proof	UTS (Rm)	Elong (A)	R of A (Z)	Hardness	-18°C	-46°C
Unit	N/mm2	N/mm2	N/mm2	%	%	HB	J	J
LF2 class 1, heat treated	Min	250	485	22				20
	Max		655			197		
LF2 class 2, heat treated	Min	250	485	22			27	
	Max		655			197		