

Quality According to standards Number	ASTM A 350 LF2 ASTM A 350M - 07	We are a professional manufacturer and exporter of ASTM A350 LF2 Flanges A350 LF2 CL1 Slip On Flange RF ASME B16.5, ASTM A350 LF2 Blind flanges, ASTM A350 LF2 Weld neck flanges in China. ASTM A350 LF2 is one of the most common forged carbon/ low-alloy steel grade for forged flanges, forged fittings and valves intended primarily for low-temperature service and requiring notch toughness testing.									
Chemical composition	C% max	Si%	Mn%	P% max	S% max	Cu% max	Ni% max	Cr% max	Mo% max	V% max	Nb% max
	0,30	0,15-0,30	0,60-1,35	0,035	0,040	0,40	0,40	0,30	0,12	0,08	0,02
The sum of copper (Cu), chromium (Cr) and molybdenum (Mo) should not exceed 1,00%											
The sum of chromium (Cr) and molybdenum (Mo) should not exceed 0,32%											
Carbon Equivalent CE = C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/ 15 max 0,47											
Temperature °C	Hot-forming	Normalizing	Quenching	Tempering	Stress-relieving						
	1150-850	880-930 air cooling	880-930 oil / polymer water	590 air cooling	50 under the temperature of tempering						
	Soft annealing	Normalizing and tempering	Isothermal annealing	Pre-heating welding	Stress-relieving after welding (PWHT)						
	700 air cooling	900 air 600 air	860 furnace cooling to 660 after, air	200 AC1	590 furnace cooling MS Mf						
Mechanical properties	Forged values as reference Heat treatments must guarantee the reported values ASTM A 350 LF2										
all dimension	Testing at room temperature (longitudinal)										
mm	R	Rp 0.2	A	C%-2%	Kv - 46 °C CL.1	Kv - 18 °C CL.2		HB			
	N/mm2	N/mm2	min.	min.	J average / minimum		max				
T	485-655	250	22	30	20 / 16		27 / 20		197		
T= max heat-treated thickness Test specimen should correspond to the 1/4 T											
Mechanical properties (longitudinal testing)	Heat treatments										
	Ø product	R	Rp 0.2	A	C-Z	Kv -46 °C	Kv -18 °C	product			
	mm	N/mm2	N/mm2	%	%	J	J				
Quenching 880 °C water	95	600	480	24.6	58	68-66-64	112- 114-110	Hot-rolled			
Tempering 640 °C air											
Normalizing 900 °C air	210	580	400	32.6	64.4	22⊕ 24-18	70⊕ 74-70	Hot-rolled			
Natural	95	526	302	28.6	62	06/06/04	16/10/08	Hot-rolled			
EUROPE EN	ITALY UNI	CHINA GB	GERMANY DIN	FRANCE AFNOR	U.K.	B.S.	RUSSIA GOST	USA AISI/SAE			
S355J2G3 appr.	Fe510 appr.	16Mn	St52.3 N	50D	20G	A350 LF2 cl. 1- cl. 2					