

Chemical composition for API SL Sour Service Pipe with wall thickness ≤ 25.0 mm (0.984 in)											
Steel Grade (Steel Name)	Mass fraction, based upon heat and product analyses										Carbon equivalent % maximum
	% maximum										
	C ^a	Si	Mn ^b	P	S	V	Nb	Ti	other ^{c,d}	CE _{mm}	CE _{pm}
Seamless and welded pipes											
L245NS or BNS	0.14	0.40	1.35	0.020	0.003 ^e			0.04	8	0.36	0.19 ^b
L290NS or X42NS	0.14	0.40	1.35	0.020	0.003 ^e	0.05	0.05	0.04	-	0.36	0.19 ^b
L320NS or X46NS	0.14	0.40	1.40	0.020	0.003 ^e	0.07	0.05	0.04	8	0.38	0.20 ^b
L360NS or X52NS	0.16	0.45	1.65	0.020	0.003 ^e	0.10	0.05	0.04	8	0.43	0.22 ^b
L245QS or XQ8S	0.14	0.40	1.35	0.020	0.003 ^e	0.04	0.04	0.04	-	0.34	0.19 ^b
L290QS or X42QS	0.14	0.40	1.35	0.020	0.003 ^e	0.04	0.04	0.04	-	0.34	0.19 ^b
L320QS or X46QS	0.15	0.45	1.40	0.020	0.003 ^e	0.05	0.05	0.04	-	0.36	0.20 ^b
L360QS or X52QS	0.16	0.45	1.65	0.020	0.003 ^e	0.07	0.05	0.04	8	0.39	0.20 ^b
L390QS or X56QS	0.16	0.45	1.65	0.020	0.003 ^e	0.07	0.05	0.04	8	0.40	0.21 ^b
L415QS or X60QS	0.16	0.45	1.65	0.020	0.003 ^e	0.08	0.05	0.04	g,j,k	0.41	0.22 ^b
L450QS or X65QS	0.16	0.45	1.65	0.020	0.003 ^e	0.09	0.05	0.06	g,j,k	0.42	0.22 ^b
L485QS or X70QS	0.16	0.45	1.65	0.020	0.003 ^e	0.09	0.05	0.06	g,j,k	0.42	0.22 ^b
welded pipe											
L245MS or BMS	0.10	0.40	1.25	0.020	0.002 ^e	0.04	0.04	0.04	-	-	0.19
L290MS or X42MS	0.10	0.40	1.25	0.020	0.002 ^e	0.04	0.04	0.04	-	-	0.19
L320MS or X46MS	0.10	0.45	1.35	0.020	0.002 ^e	0.05	0.05	0.04	-	-	0.20
L360MS or X52MS	0.10	0.45	1.45	0.020	0.002 ^e	0.05	0.06	0.04	-	-	0.20
L390MS or X56MS	0.10	0.45	1.45	0.020	0.002 ^e	0.06	0.08	0.04	8	-	0.21
L415MS or X60MS	0.10	0.45	1.45	0.020	0.002 ^e	0.08	0.08	0.06	g,j	-	0.21
L450MS or X65MS	0.10	0.45	1.60	0.020	0.002 ^e	0.10	0.08	0.06	g,j,k	-	0.22
L485MS or X70MS	0.10	0.45	1.60	0.020	0.002 ^e	0.10	0.08	0.06	g,j,k	-	0.22

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