

**Chemical composition for API 5L 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 <sup>a</sup>	Si	Mn <sup>b</sup>	P	S	V	Nb	Ti	other <sup>c,d</sup>	CE <sub>min</sub>	CE <sub>nom</sub>
<b>Seamless and welded pipes</b>											
L245NS or BNS	0.14	0.40	1.35	0.020	0.003 <sup>e</sup>	-	-	0.04	g	0.36	0.19 <sup>h</sup>
L290NS or X42NS	0.14	0.40	1.35	0.020	0.003 <sup>e</sup>	0.05	0.05	0.04	-	0.36	0.19 <sup>h</sup>
L320NS or X46NS	0.14	0.40	1.40	0.020	0.003 <sup>e</sup>	0.07	0.05	0.04	g	0.38	0.20 <sup>h</sup>
L360NS or X52NS	0.16	0.45	1.65	0.020	0.003 <sup>e</sup>	0.10	0.05	0.04	g	0.43	0.22 <sup>h</sup>
L245QS or XQBS	0.14	0.40	1.35	0.020	0.003 <sup>e</sup>	0.04	0.04	0.04	-	0.34	0.19 <sup>h</sup>
L290QS or X42QS	0.14	0.40	1.35	0.020	0.003 <sup>e</sup>	0.04	0.04	0.04	-	0.34	0.19 <sup>h</sup>
L320QS or X46QS	0.15	0.45	1.40	0.020	0.003 <sup>e</sup>	0.05	0.05	0.04	-	0.36	0.20 <sup>h</sup>
L360QS or X52QS	0.16	0.45	1.65	0.020	0.003 <sup>e</sup>	0.07	0.05	0.04	g	0.39	0.20 <sup>h</sup>
L390QS or X56QS	0.16	0.45	1.65	0.020	0.003 <sup>e</sup>	0.07	0.05	0.04	g	0.40	0.21 <sup>h</sup>
L415QS or X60QS	0.16	0.45	1.65	0.020	0.003 <sup>e</sup>	0.08	0.05	0.04	g,i,k	0.41	0.22 <sup>h</sup>
L450QS or X65QS	0.16	0.45	1.65	0.020	0.003 <sup>e</sup>	0.09	0.05	0.06	g,i,k	0.42	0.22 <sup>h</sup>
L485QS or X70QS	0.16	0.45	1.65	0.020	0.003 <sup>e</sup>	0.09	0.05	0.06	g,i,k	0.42	0.22 <sup>h</sup>
<b>Welded pipe</b>											
L245MS or BMS	0.10	0.40	1.25	0.020	0.002 <sup>e</sup>	0.04	0.04	0.04	-	-	0.19
L290MS or X42MS	0.10	0.40	1.25	0.020	0.002 <sup>e</sup>	0.04	0.04	0.04	-	-	0.19
L320MS or X46MS	0.10	0.45	1.35	0.020	0.002 <sup>e</sup>	0.05	0.05	0.04	-	-	0.20
L360MS or X52MS	0.10	0.45	1.45	0.020	0.002 <sup>e</sup>	0.05	0.06	0.04	-	-	0.20
L390MS or X56MS	0.10	0.45	1.45	0.020	0.002 <sup>e</sup>	0.06	0.08	0.04	g	-	0.21
L415MS or X60MS	0.10	0.45	1.45	0.020	0.002 <sup>e</sup>	0.08	0.08	0.06	g,i	-	0.21
L450MS or X65MS	0.10	0.45	1.60	0.020	0.002 <sup>e</sup>	0.10	0.08	0.06	g,i,k	-	0.22
L485MS or X70MS	0.10	0.45	1.60	0.020	0.002 <sup>e</sup>	0.10	0.08	0.06	g,i,k	-	0.22

# Api Api Spec 5l 45th Edition Specification For Line Pipe

**M Mosston**



## **Api Api Spec 5l 45th Edition Specification For Line Pipe:**

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calculate the number of moles of tin chlorine and tin chloride a r values

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