

# Stainless Steel (inc. High Performance) - 1.4307 / 304L

## Welded Butt Weld 45 deg L/R Elbows

## Properties

Stock			Chemical Properties	
NB (in)	SCH	Weight (Kg)	Element	Chemical Composition %
1/2	10S	0.03	Carbon (C)	0.0 - 0.03
1/2	40S	0.04	Chromium (Cr)	17.5 - 19.5
3/4	10S	0.04	Manganese (Mn)	0.0 - 2.0
3/4	40S	0.05	Silicon (Si)	0.0 - 1.0
1	10S	0.06	Phosphorus (P)	0.0 - 0.05
1	40S	0.08	Sulphur (S)	0.0 - 0.02
1 1/4	10S	0.10	Nickel (Ni)	8.0 - 10.50
1 1/4	40S	0.13	Iron (Fe)	Balance
1 1/2	10S	0.14	Above properties are for 1.4307	
1 1/2	40S	0.18	1.4307/304L also corresponds to the following designation 304S11	
2	10S	0.24		
2	40S	0.33		
2 1/2	10S	0.41		
2 1/2	40S	0.68		
3	10S	0.57		
3	40S	1.02		
4	10S	0.99		
4	40S	1.92		
5	10S	1.71		
5	40S	3.24		
6	10S	2.43		
6	40S	4.97		
8	10S	5.01		
8	40S	10.10		
10	10S	7.77		
10	40S	17.70		
12	10S	14.00		
12	40S	26.50		
			<b>Mechanical Properties</b>	
			<b>Property</b>	<b>Value</b>
			Tensile Strength	500 to 670 MPa
			Elongation	45% min
			Compressive Strength	200 MPa
			Above properties are for 1.4307	
			1.4301/304 also corresponds to the following designation 304S11	
			<b>Physical Properties</b>	
			<b>Property</b>	<b>Value</b>
			Density	8.00 g/cm <sup>3</sup>
			Melting Point	1450°C
			Thermal Expansion	17.2 x 10 <sup>-6</sup> /K
			Modulus of Elasticity	193 GPa
			Thermal Conductivity	16.2 W/m.K
			Electrical Resistivity	0.072 x 10 <sup>-6</sup> Ω.m
			1.4307/304L also corresponds to the following designation 304S11	

### Disclaimer

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