

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

Seamless Pipe

Properties

Stock			Chemical Properties	
NB(in)	SCH	Weight/m (Kg)	Element	Chemical Composition %
1/8	10S	0.28	Carbon (C)	0.0 - 0.03
1/8	40S	0.37	Chromium (Cr)	17.5 - 19.5
1/4	10S	0.49	Manganese (Mn)	0.0 - 2.0
1/4	40S	0.64	Silicon (Si)	0.0 - 1.0
1/4	80S	0.80	Phosphorus (P)	0.0 - 0.05
3/8	10S	0.63	Sulphur (S)	0.0 - 0.02
3/8	40S	0.86	Nickel (Ni)	8.0 - 10.50
3/8	80S	1.10	Iron (Fe)	Balance
1/2	10S	1.01	Above properties are for 1.4307	
1/2	40S	1.29	1.4307/304L also corresponds to the following designation 304S11	
1/2	80S	1.64		
1/2	160S	1.98		
1/2	XXS	2.59		
3/4	10S	1.30		
3/4	40S	1.71		
3/4	80S	2.23		
3/4	160S	2.94		
3/4	XXS	3.69		
1	10S	2.13	1.4301/304 also corresponds to the following designation 304S11	
1	40S	2.54		
1	80S	3.29		
1	160S	4.30		
1	XXS	5.53		
1 1/4	10S	2.74		
1 1/4	40S	3.44		
1 1/4	80S	4.54		
1 1/4	160S	5.70		
1 1/4	XXS	7.88		
1 1/2	10S	3.16	1.4307/304L also corresponds to the following designation 304S11	
1 1/2	40S	4.11		
1 1/2	80S	5.50		
1 1/2	160S	7.36		
1 1/2	XXS	9.70		
2	10S	3.99		
2	40S	5.52		
2	80S	7.60		
2	160S	11.28		
2	XXS	13.65		
2 1/2	10S	5.34		
2 1/2	40S	8.77		
2 1/2	80S	11.58		
2 1/2	160S	15.15		

Mechanical Properties	
Property	Value
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	

Physical Properties	
Property	Value
Density	8.00 g/cm ³
Melting Point	1450°C
Thermal Expansion	17.2 x 10 ⁻⁶ /K
Modulus of Elasticity	193 GPa
Thermal Conductivity	16.2 W/m.K
Electrical Resistivity	0.072 x 10 ⁻⁶ Ω.m

2 1/2	XXS	20.71
3	10S	6.56
3	40S	11.47
3	80S	15.51
3	160S	21.67
3	XXS	28.11
3 1/2	10S	7.53
3 1/2	40S	13.78
3 1/2	80S	18.92
4	10S	8.50
4	40S	16.32
4	80S	22.67
4	120S	28.75
4	160S	34.05
4	XXS	41.66
5	10S	11.74
5	40S	22.10
5	80S	31.44
5	120S	40.90
5	160S	49.87
5	XXS	58.32
6	10S	14.03
6	40S	28.70
6	80S	43.22
6	120S	55.04
6	160S	68.60
6	XXS	80.44
8	10S	20.27
8	20S	33.83
8	40S	43.20
8	60S	53.90
8	80S	65.64
8	100S	77.09
8	120S	91.83
8	160S	112.98
10	10S	28.20
10	20S	42.40
10	40S	61.23
10	80S	82.79
10	FULL 80	97.45
10	120S	135.05
10	160S	174.92
12	10S	36.54
12	20S	50.49
12	40S	74.92
12	FULL 40	80.94
12	80S	98.88
12	FULL 80	134.12
12	100S	162.38
12	120S	189.85
12	160S	242.44

14	40S	82.50
14	80S	109.05
14	100S	197.97
14	120S	228.11
14	160S	286.04
16	40S	94.61
16	80S	125.20
16	FULL 80	206.67
16	120S	291.06
16	160S	370.99

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