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### AISI Type 316L Stainless Steel

Component	Wt. %	Component	Wt. %	Component	Wt. %
C	0.03	Mn	2	P	0.045
Cr	17	Mo	2.5	S	0.03
Fe	65	Ni	12	Si	1

Physical Properties	Metric	English	Comments
Density	8 g/cc	0.289 lb/in <sup>3</sup>	
<b>Mechanical Properties</b>			
Hardness, Rockwell B	79	79	
Tensile Strength, Ultimate	560 MPa	81200 psi	
Tensile Strength, Yield	290 MPa	42100 psi	
Elongation at Break	50 %	50 %	in 50 mm
Modulus of Elasticity	193 GPa	28000 ksi	in tension
Charpy Impact	103 J	76 ft-lb	V-notch, 30°C
Izod Impact	150 J	111 ft-lb	21°C, 150 J at -195°C(-320°F)
<b>Electrical Properties</b>			
Electrical Resistivity	7.4e-005 ohm-cm	7.4e-005 ohm-cm	at 20°C
Magnetic Permeability	1.008	1.008	at RT
<b>Thermal Properties</b>			
Specific Heat Capacity	0.5 J/g-°C	0.12 BTU/lb-°F	from 0-100°C (32-212°F)
Melting Point	1375 - 1400 °C	2510 - 2550 °F	
Solidus	1375 °C	2510 °F	
Liquidus	1400 °C	2550 °F	
Maximum Service Temperature, Air	870 °C	1600 °F	Intermittent Service
Maximum Service Temperature, Air	925 °C	1700 °F	Continuous Service