



301

Stainless Steel

301 Stainless Steel Properties

301 Stainless Steel		
Minimum Properties (annealed condition)	Ultimate Tensile Strength, psi	74,700 min
	Yield Strength, psi	29,700 min
	Elongation	40% min
	Rockwell Hardness	B85
Minimum Properties (1/4 hard condition)	Ultimate Tensile Strength, psi	125,000 min
	Yield Strength, psi	75,000 min
	Elongation	25% min
	Rockwell Hardness	C25
Minimum Properties (1/2 hard condition)	Ultimate Tensile Strength, psi	150,000 min
	Yield Strength, psi	110000
	Elongation	18% min
	Rockwell Hardness	C32
Minimum Properties (full hard condition)	Ultimate Tensile Strength, psi	185,000 min
	Yield Strength, psi	140,000 min
	Elongation	9% min
	Rockwell Hardness	C41
Chemistry	Iron (Fe)	0.75
	Carbon (C)	0.15% max
	Chrome (Cr)	16 - 18%
	Manganese (Mn)	2% max
	Nitrogen (N)	0.1% max
	Nickel (Ni)	6 - 8%
	Phosphorus (P)	0.045% max
	Sulphur (S)	0.03% max
Silicon (Si)	0.75% max	

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