

Stainless Steel Information



Cylindrical Rod



Precision Ground Blank



Plate

These low-maintenance materials are often used in applications where corrosion resistance is critical. Stainless steels have a higher resistance to rust in many natural and man-made environments; however, it is important to use the appropriate grade of steel regarding your requirements for strength, hardness, and workability.

STAINLESS STEEL COMPARISON CHART

Material	Tensile Strength* (psi)	Yield Strength* (psi)	Hardness*	Corrosion Resistance	Formability	Machinability	Weldability
Type 303	90,000	35,000	160 (BHN)	Fair	Not Recommended	Excellent	Not Recommended
Type 304	85,000	35,000	160 (BHN)	Good	Excellent	Good	Good
Type 316	81,900	30,000	160 (BHN)	Excellent	Excellent	Good	Good
Type 416	75,000	40,000	155 (BHN)	Poor	Not Recommended	Excellent	Not Recommended
Type 440C	110,000	65,000	230 (BHN)	Poor	Poor	Fair	Poor
Type 17-4 PH	150,000	110,000	Max. 38 (Rc)	Good	Good	Fair	Good

(*) Typical levels @ 1" dia.