

Mechanical Properties of Steel

Condition, Strength, Hardness, Machinability

Stainless Steels

AISI	Materials Condition	Tensile Strength ksi	Yield Strength ksi	Hardness Brinell	Hardness Rockwell	Machinability % of CD1212	Permeability Annealed	Permeability Drawn
Type 302HQ	Annealed Bars	75-95	35-55	150-180	80-90B	60	Non-Magnetic	Non-magnetic to slightly magnetic
Type 303	Annealed Bars	85-95	30-40	160-180	83-95B	73	Non-Magnetic	Magnetic
Type 304	Annealed Bars	80-90	30-40	150-180	80-90B	45	Non-Magnetic	Slightly Magnetic
Type 316	Annealed Bars	75-90	30-40	150-180	80-90B	40	Non-Magnetic	Non-magnetic to slightly magnetic
Type 410	Annealed Bars	70-100	35-45	150-200	80-90B	55	Magnetic	Magnetic
Type 416	Annealed Bars	80-100	55-65	190-220	90-95B	90	Magnetic	Magnetic
Type 17-4	Bars Cond. A	150	110	320	35C	45	Magnetic	Magnetic
	Cond. H 900	200	185	415	44C			
	Cond. H 1025	170	165	352	38C			