

Comparison of Mechanical Properties For Different Alloys

Steel/alloy type	DIN Material code	Density (g/cm ³)	Tensile Strength (N/mm ²)	Yield Strength (N/mm ²)	Elongation (%)	Hardness (HB)
Austenitic stainless steel	1.4308	7.8	440-640	≥ 200	≥ 30	-
Austenitic stainless steel	1.4408	7.8	440-640	≥ 210	≥ 30	-
Martensitic stainless steel	1.4021	7.8	650-850	≥ 500	≥ 10	-
Martensitic stainless steel	1.4057	7.8	780	590	25	229
Duplex stainless steel	1.4517	7.8	650-850	480	22	-
Carbon steel	1.0619	7.8	420-600	≥ 240	≥ 22	-