



## Steel Specifications

### Steel Castings & Forgings

Alloy/Grade	Description	Typical Range of Mechanical Properties		
		Tensile/Ksi	Yield/Ksi	Elongation/%
A27/A27M-13	Standard Specification for Steel Castings, Carbon, for General Application	60 to 70	30 to 40	22 to 24
ASTM A148/A148M Grade 1020 to 1050	Standard Specification for Steel Castings, High Strength, for Structural Purposes Basic Non-Resulfurized Steel	80 to 260 60 to 100	40 to 210 35 to 80	22 to 3 25 to 10
AAR M201 Gr. A to E	AAR Standards for Steel castings-- Max. 0.32% C , 1.50% Si . P 0.04% and S 0.04%	60 to 120	30 to 100	24 to 14
41 XX Series	Chromium-Molybdenum Alloy Steel	75 to 175	55 to 115	30 to 10
43 XX Series	Nickel-Chromium-Molybdenum Alloy Steel	115 to 210	75 to 150	16 to 7
86 XX Series	Nickel-Chromium-Molybdenum Alloy Steel	70 to 180	70 to 165	16 to 8
304/304L	Cast Austenitic Stainless	TBD	TBD	TBD
310	Cast Austenitic Stainless	TBD	TBD	TBD
CF3/CF3M	Cast Austenitic Stainless, Unclassified	70 to 100	42	30
CF8/CF8M	Cast Austenitic Stainless, Unclassified	70	30	35