

ASTM Spec. Grade	nominal designation	service recommendations	Temp		Max. Temp	
			°F	°C	°F	°C
A216-WCB	Cast Carbon Steel	W.O.G. / water, oil & gas) steam and general service	-20	-29	800	425
A352-LCB	Cast Carbon Steel	low temperature and general service	-50	-46	650	343
A352-LCC	Cast Carbon Steel	low temperature and general service	-50	-46	650	343
A217-WC6	Chrome-Molybdenum Steel 1 ¼Cr-½Mo	high temperature, steam oil vapour and general service	-20	-29	1100	593
A217-WC9	Chrome-Molybdenum Steel 2 ¼Cr-1Mo	high temperature, steam oil vapour and general service	-20	-29	1100	593
A217-C5	Chrome-Molybdenum Steel 5Cr-½Mo	corrosive erosive oil refinery service	-20	-29	1200	649
A217-C12	Chrome-Molybdenum Steel 9Cr-1Mo	corrosive erosive oil refinery service	-20	-29	1200	649
A351-CF8	Cast Stainless Steel 18Cr-10Ni, 304 SS	corrosive or extremely high temperature non corrosive services between -450°F(-268°C) and 1200°F(649°C) Above 1000°F(540°C) specify carbon content of 0.04% or greater	-20	-29	1100	593
A351-CF8M	Cast Stainless Steel 18Cr-10Ni-2Mo, 316 SS		-20	-29	1100	593
A351-CF3	Cast Low Carbon Stainless Steel 18Cr-10Ni, 304L SS		-20	-29	800	425
A351-CF3M	Cast Low Carbon Stainless Steel 18Cr-10Ni-2Mo, 316L SS		-20	-29	850	454
A351-CN7M	Cast Stainless Steel 19Cr-29Ni, Alloy-20	corrosion resistance	-20	-29	800	425
A494 M -35 - 1	Cast Nickel Alloy Steel, Monel	weld able grade, good resistance to corrosion by all common organic acids and salt water	-20	-29	750	400
A494 CW - 6M	Cast Ni Alloy Steel Hastelloy C	good resistance to strong oxidation conditions, good properties at high temperatures, high resistance to formic, phosphoric, sulphurous and sulphuric acids	-20	-29	1200	649
A494 CY - 40	Cast Ni Alloy Steel inconel	very good for high temperature service, good resistance to strongly corrosive media	-20	-29	1200	649
A105 (N)	Forged Carbon Steel	W.O.G. (water, oil & gas) steam and general service	-40		800	425
A350-LF2	Forged Carbon Steel	W.O.G. (water, oil & gas) general service	-50		650	343
A182-F11	Chrome-Molybdenum Steel 1 ¼Cr-½Mo-Si	high temperature, steam oil vapour and general service	-40		1100	593
A182-F304	Forged Stainless Steel 18Cr-10Ni, 304 SS	corrosive or extremely high temperature non corrosive services between -450°F(-268°C) and 1200°F(649°C) Above 1000°F(540°C) specify carbon content of 0.04% or greater	-20	-29	1100	593
A182-F316	Forged Stainless Steel 18Cr-10Ni-2Mo, 316 SS		-20	-29	1100	593
A182-F304L	Forged Stainless Steel 18Cr-10Ni, 304L SS		-20	-29	800	425
A182-F316L	Forged Stainless Steel 18Cr-10Ni-2Mo, 316L SS		-20	-29	850	454