

ANSI/SAE Numbering System for Steels

Carbon steels	10XX	Plain carbon, Mn 1.00% max
	11XX	Resulfurized free machining
	12XX	Resulfurized/rephosphorized free machining
	15XX	Plain carbon, Mn 1.00-1.65%
Manganese steel	13XX	Mn 1.75%
Nickel steels	23XX	Ni 3.50%
	25XX	Ni 5.00%
Nickel-chromium steels	31XX	Ni 1.25%, Cr .65-.80%
	32XX	Ni 1.75%, Cr 1.07%
	33XX	Ni 3.50%, Cr 1.50-1.57%
	34XX	Ni 3.00%, Cr .77%
Molybdenum steels	40XX	Mo .20-.25%
	44XX	Mo .40-.52%
Chromium-molybdenum steels	41XX	Cr .50-.95%, Mo .12-.30%
Nickel-chromium-molybdenum steels	43XX	Ni 1.82%, Cr .50-.80%, Mo .25%
	47XX	Ni 1.05%, Cr .45%, Mo .20-.35%
Nickel-molybdenum steels	46XX	Ni .85-1.82%, Mo .20-.25%
	48XX	Ni 3.50%, Mo .25%
Chromium steels	50XX	Cr .27-.65%
	51XX	Cr .80-1.05%
	50XXX	Cr .50%, C 1.00% min

	51XXX	Cr 1.02%, C 1.00% min
	52XXX	Cr 1.45%, C 1.00% min
Chromium-vanadium steels	61XX	Cr .60-.95%, V .10-.15%
Tungsten-chromium steels	72XX	W 1.75%, Cr .75%
Nickel-chromium-molybdenum steels	81XX	Ni .30%, Cr .40%, Mo .12%
	86XX	Ni .55%, Cr .50%, Mo .20%
	87XX	Ni .55%, Cr .50%, Mo .25%
	88XX	Ni .55%, Cr .50%, Mo .35%
Silicon-manganese steels	92XX	Si 1.40-2.00%, Mn .65-.85%, Cr 0-.65%
Nickel-chromium-molybdenum steels	93XX	Ni 3.25%, Cr 1.20%, Mo .12%
	94XX	Ni .45%, Cr .40%, Mo .12%
	97XX	Ni .55%, Cr .20%, Mo .20%
	98XX	Ni 1.00%, Cr .80%, Mo .25%