

Threads and Materials (continued)
AISI/SAE Numbering System for Carbon and Alloy Steels

Type Of Steel	Number Designation	Content
Carbon Steels	10xx	Plain carbon, Mn 1.00% max
	11xx	Resulfurized free machining
	12xx	Resulfurized / rephosphated free machining
	15xx	
Manganese Steels	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%

In the number designation, the first 2 digits represent the type of steel, the second 2 digits “xx” represent the carbon content in hundredths of a percent.

The letter “L” in the middle of the number indicates the presence of lead, the letter “B” indicates the presence of boron.