

Standard Steel and Steel Alloy Number Designations	
Series Designation	Types and Classes
10xx	Non-resulfurized carbon steel grades (plain carbon steel)
11xx	Resulfurized carbon steel grades (free cutting carbon steel)
13xx	Manganese (1.75%)
20xx	Nickel steels
23xx	Nickel (3.50%)
25xx	Nickel (5.00%)
30xx	Nickel-chromium steels
31xx	Nickel (1.25%); chromium (0.65 or 0.80%)
33xx	Nickel (3.5%); chromium (1.55%)
40xx	Molybdenum (0.25%)
41xx	Chromium (0.50-0.95%); molybdenum (0.12 or 0.20%)
43xx	Nickel (1.80%); chromium (0.50 or 0.80%); molybdenum (0.25%)
46xx	Nickel (1.55 or 1.80%); molybdenum (0.20 or 0.25%)
47xx	Nickel (1.05%); chromium (0.45%); molybdenum (0.25%)
48xx	Nickel (3.50%); molybdenum (0.25%)
50xx	Chromium (0.28 or 0.40%)
51xx	Chromium (0.80, 0.90, 0.95, 1.00 or 1.05%)
5xxxx	Carbon (1.00%); chromium (0.50, 1.00, or 1.45%)
60xx	Chromium-vanadium steels
61xx	Chromium (0.80 or 0.95%); vanadium (0.10 or 0.15% min)
70xx	Heat resisting casting alloy
80xx	Nickel-chromium-molybdenum steels
86xx	Nickel (0.55%); chromium (0.50 or 0.65%); molybdenum (0.20%)
87xx	Nickel (0.55%); chromium (0.50%); molybdenum (0.25%)
90xx	Silicon-manganese steels
92xx	Manganese (0.85%); silicon (2.00%)
93xx	Nickel (3.25%); chromium (1.20%); molybdenum (0.12%)
94xx	Manganese (1.00%); nickel (0.45%); chromium (0.40%); molybdenum (0.12%)
97xx	Nickel (0.55%); chromium (0.17%); molybdenum (0.20%)
98xx	Nickel (1.00%); chromium (0.80%); molybdenum (0.25%)

Prefixes:

- C – basic open hearth carbon steels (i.e., C1020)
- E – electric furnace carbon and alloy steels (i.e., E1020)

Suffixes:

- H – steels manufactured to meet hardenability limits (i.e., 4340H)

Main Designation:

- “43” in 4340 indicates major alloying metals in a steel
- “40” in 4340 indicates approximate percent carbon (0.40% carbon)
 - o * A few cases deviate from this rule.