

Grade AISI	Grade UNI	Main alloy components	Core Hardness HV/ HRC	Surface Hardness HV1
<b>NITRIDING STEELS</b>				
N135M	38CrAlMo7	C=0.38 Cr=1.7 Mo=0.3 Al=1	350 / 36	1190 - 1290
Nitralloy N		C=0.35 Cr=1.15 Ni=3.5 Mo=0.25	350 / 36	1100 - 1200
	34CrAlNi7	C=0.34 Cr=1.7 Ni=1 Al=1	350 / 36	1190 - 1290
	42CrMoV12	C=0.42 Cr=3 Mo=1.2 V=0.20	490 / 48	1050 - 1150
	31CrMo12	C=0.32 Cr=3 Mo=0.4	320 / 32	870 - 920
	30CrMoV9	C=0.30 Cr=2.5 Mo=0.2 V=0.15	320 / 32	900 - 930
	25CrMo20	C=0.25 Cr=6 Mo=0.20	280 / 27	1000 - 1100
<b>OTHER HARDENABLE ALLOY STEELS</b>				
4130	30CrMo4	C=0.30 Cr=1 Mo=0.2	300 / 30	640 - 680
4140	42CrMo4	C=0.40 Cr=1 Mn=0.9 Mo=0.2	300 / 30	650 - 700
4340		C=0.40 Cr=0.8 Ni=1.8 Mo=0.25	310 / 31	650 - 700
	30NiCrMo12	C=0.30 Cr=0.8 Ni=2.8 Mo=0.12	310 / 31	600 - 650
	35NiCrMo15	C=0.35 Cr=1.7 Ni=3.8 Mo=0.15	330 / 33	800 - 850
<b>CARBON STEELS</b>				
1010	C10	C=0.10 Mn=0.50	160	320 - 380
1020	C20	C=0.20 Mn=0.50	180	320 - 380
1030	C30	C=0.30 Mn=0.7	180	380 - 420
1045	C45	C=0.45 Mn=0.7	200	420 - 470
1060	C60	C=0.60 Mn=0.7	250 / 22	525
<b>CARBURIZING ALLOY STEELS</b>				
5115	16MnCr5	C=0.15 Cr=0.8 Mn=0.9	180	660 - 720
	20 MnCr5	C=0.20 Cr=1.15 Mn=1.3	240 / 21	750 - 800
8620		C=0.20 Cr=0.5 Ni=0.6 Mo=0.2	190	500 - 520
	18NiCrMo5	C=0.18 Cr=0.9 Mn=0.8 Ni=1.3 Mo=0.25	210	700 - 750
<b>TOOL STEELS</b>				
D2		C=1.5 Cr=12 Mo=1 V=1.1 Co=1	580 / 54	1270 - 1370
	X150CrMo12	C=1.5 Cr=12 Mo=0.8	580 / 54	1270 - 1370
H13	AFNOR Z40	C=0.40 Cr=5.2 Mo=1.5 V=1	480 / 48	1150 - 1280
	X38CrMoV5.1	C=0.40 Cr=5.2 Mo=1.1 V=0.4	480 / 48	1180 - 1280
	40CrMnMo7	C=0.40 Cr=2 Mn=1.5 Mo=0.2	340 / 34	870 - 930
M7	DIN 1.3348	C=1 Cr=3.8 Mo=9 W=1.8 V=2	787 / 63	1100
M42	DIN 1.3247	C=1.1 Cr=3.9 Mo=9.5 W=1.5 V=1.1 Co=8.	865 / 66	1100
<b>STAINLESS STEELS</b>				
	X5CrNiMo18.10	C=.07 Cr=18 Ni=10 Mo=2	230	1150 - 1250
316L	X2CrNiMo18.10	C=.03 Cr=18 Ni=12 Mo=2	230	1150 - 1250
440B	X90CrMoV18	C=0.0 Cr=17 Mn=1 Si=1 Mo=0.75	420 / 43	1200 - 1350
17-4 PH		C=.07 Cr=16 Mn=1 Si=1 Ni=4 Cu=4 Nb=.3	300 / 30	950 - 1100