

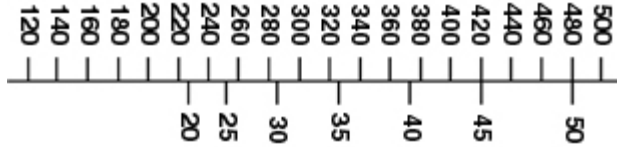


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## Materials Cross Reference

### Brinnell Hardness



### Rockwell C Hardness



### Chip Classifications

	Chip Class	USA	Germany	United Kingdom	France	Japan
<b>Group 1 Aluminum Alloys up to 5% Silicon</b>	C	2011	AlCuBiPb	FC1	A-U5PbBi	A2011
		2014	AlCuSiMn	L102	A-U4SG	A2014
		2024	AlCuSiMg2	LL109	A-U4G1	A2024
		6061	AlMgSiCu	L117	A-GSUC	A6061
		7075	AlMgSiCu1.5	2L88	A-Z5GU	A7075
<b>Group 2 Aluminum Alloys over 5% Silicon and Magnesium</b>	M	AZ61A	MgAl6Zn	3373	G-A6Z1	H4202
		319.0				AC2B
		355.0		LM16	A-S4UG	H2117
		356.0	AlSi7Mg	2L99	A-S7G	H5202
		380.0	AlSi8Cu3	LM24	A-S9U3	H5302
		390.0				
<b>Group 3 Copper - Zinc Alloys (Brass)</b>	M	268 (Yellow)	CuZn36	CZ107	UZ33	C2680
		360 (Free Cut)	CuZn36Pb3	CZ124	UZ36Pb3	C23601
		464 (Naval)	CuZn39Sn	CZ112		
		836 (Red)	CuSn5ZnPb		U-E5Pb5Z5	BCIn6
<b>Group 4 Copper Alloys (Bronze)</b>	S	510 (Phosphur)		PB102	UE5P	C5101
		614 (Aluminum)	CuAl8Fe	c		
		905 (Tin)	CuSn10Zn			BC3C
<b>Group 5 Cast (Grey) Iron</b>	M	G3000	GG20	1452 Gr. 220	Ft20D	FC20
		G4000	GG25	1452 Gr. 260	Ft25D	FC25
		G4500	GG30	1452 Gr. 300	Ft30D	FC30
		G5500	GG35	1452 Gr. 350	Ft35D	FC35

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<b>Group 6 Ductile (Nodular) Iron and Powder Metal Alloys</b>	M	D4018	GGG 40	420/12	FGS 370-17	FCD 40 FCD
		60-40-18	GGG 40	420/12	FGS 370-17	40
		65-45-12	GGG 50	500/7	FGS 400-12	FCD 50 FCD
		80-55-06	GGG 60	600/3	FGS 600-3	60
		100-70-03	GGG 70	700/2	FGS 700-2	FCD 70
<b>Group 7 Low Carbon Steels up to .35% Carbon</b>	C	A-36 (Boiler Plate)	13Mn6	150M12	E35-4	S17C
		1018	C16.8	080A17	AF42	S18C
		1035	Ck35	060A35	AF55	S35C
		1117		210A15		SUM31
		1215	9 5Mn 36	240M07	S300	SUM23
		4118	20CrMo5	708H20	18CD4	SCM418H
		4130	30CrMo4	708A30	30cD4	SCM2
		4620		665A19	2ND8	
		5120	76Mn3	080A72	XC75	SCr420H
		5134				
		516-70	C16.8	080A17	AF42	
		8620	21NiCrMoS2	805A20	19NCDB2	SNCM220H
		9310	14NiCrMo134	832H13	16NCD13	
<b>Group 8 Medium Carbon Steels (.35-.50% Carbon)</b>	S	P20	40CrMnMo7	4659		
		1045	Ck45	080M46	XC45	S45C
		1050	QSt32-2	045A10	XC12	S10C
		1141		216A42	45MF4	SUM42
		1144	45S20	226M44	45MF6	SUM43
		1541	45SiMn5	150M40	40M6	SMn2
		4140	42CrMo4	708H42	42CD4	SCM4
		4150	50CrMo4		50SCD6	
		4340	40NiCrMo6	2S.119		SNCM8
		6150	50CrV4	735A50	50CV4	SUP10

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Group 9 High Carbon and Tools Steels	M	A-2	X100CrMoV5 1	BA2	Z100CDV5	SKD12
		D-2	X165CrVMo12 1	BD2	Z160CD12	SKD11
		H-13	X40CrMoV5 1	BH13	Z40CDV5	SKD61
		M-1	S2-9-1	BM1	Z85DCWV08-04-02-01	
		M-2	S6-5-2Si	BM2	Z85WDCV06-05-04	
		M3-2	S6-5-3		Z120WDCV06-05-04-03	SKH51
		M-7	S2-9-2		Z100DCWV09-04-02-02	SKH58
		M35	X85WMoCo6.5.5		Z90WDCKCV06-05-05-04-02	SKH55
		0-1	100MnCrW4	B01	90MWCV5	SKS21
		S-7	X79WCo18.5	BT4	Z80WKCV18-05-04	SKH3
		T15	X133WCo12.5	BT15	Z160WKVC12-05-05-04	SKH10
		52100	100CrMn6	970 535A99	A35-552 100C6	
Group 10 Hardened Steels (48-65 Rc)	M					
Group 11 Stainless Steel (free Machining)	M	303	X12CrNiS18.8	303S21	Z10CNF18.09	SUS303
		440C	X105CrMo17		Z80CSN20.02	SUS440C
Group 12 Stainless Steel	S	Nitroninc 50				
		15-5 PH		15Cr5Ni		
		17-4 PH	X5CrNiCuNb17 4	17Cr4Ni	Z6CNU17.04	SCS24
		304	X6CrNi18 9	970 S15	Z5CN18.09	SCS13
		316	X5CrNiMo18 12	316S25	Z6CND17.11	SCS14
		321	X8CrNiTi18.10	S-520	Z6CNT18.12	SUSY321
		410	X15Cr13		Z12CN13M	SCS1
440A	X65CrMo14		Z70CD14	SUS440A		
Group 13 Titanium	S					
		6AL4V				
Group 14 Soft High Temperature Alloys						
		Inconel718				
Group 15 Hard High Temperature Alloys	S	Rene				
		Hastelloy				
		L605				
		A286	X5NiCrTi26 15	HR650	Z6NCCTDV25.15B	SUH660
Group 16 Hard Plastics, Resin Fiberglass, Graphite and Carbon	M	PVC				
		SMC				
		Acrylic				

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