

### Stainless Steel Materials

Type	Material Code	Shapes	Unit	Standard Size
Austenite	SUS303	Round Bar	D	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,25,26,28,30
Austenite	SUS304	Flat Bar	t	3,4,5,6,7,8,9,10,12,14,15,16,19,20,22,25,28,30,35,40,45,50,55,60,70
		Square Bar	□	5,6,7,8,9,10,12,13,14,15,16,19,20,22,25,28,30,32,36,38,40,45,50,60
		Hexagonal Bar	Opposite Side H	8,10,14,17,19,21,22,23,24,26,29,30,32,35,36,38,41,46
		Round Bar	D	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,30,32,34,35,36,38,40,42,45,46,48,50,55,60,65,70,75,80,85,90,95,100,110,120,130,140,150,160,170,180,190,200,210,220,230
Steel Plate	t	0.3,0.4,0.5,0.6,0.8,1,1.2,1.5,2,2.5,3,4,5,6,7,8,9,10,12,15,20		

### Copper Alloy Materials

Type	Material Code	Shapes	Unit	Standard Size
Brass Sheet	C2801P	Steel Plate	t	0.1,0.15,0.2,0.3,0.4,0.5,0.8,1,1.2,1.5,1.6,2,2.3,2.5,3,3.5,4,5,6,7,8,9,10,12,15,20,25,30,40,50
Free-Cutting Brass (Extruded Bar)	C3604BD	Square Bar	□	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,28,30,32,35,36,38,40,42,45,50,55,60,65,70,75,80,85,90,95,100
		Hexagonal Bar	Opposite Side H	5,5.5,6,7,8,9,5,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,32,34,35,36,38,40,41,42,44,45,46,50,54,55,58,60,65,70,75,80
		Round Bar	D	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,32,33,34,35,36,38,40,42,45,46,47,48,50,51,52,53,54,55,56,57,58,60,65,70,75,80,85,90,95,100,105,110,115,120,125,130,135,140,145,150,160,170,180,190,200,210,220,230,240,250,270,280,300,320,350

### Aluminum Alloy Materials

Type	Material Code	Shapes	Unit	Standard Size
Al-Cu Alloy	A2017	Flat Bar	t	0.5,0.6,0.8,1,1.2,1.5,1.6,2,2.5,3,4,5,6,8,10,12,15,20,25,30,40,45,50,60,70,80,90,100
		Round Bar	D	5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,70,75,80,85,90,95,100,105,110,115,120,125,130,135,140,150,160,170,180,190,200,210,220,230,240,250,260,280,300
Al-Mg Alloy	A5052	Flat Bar	t	0.4,0.5,0.6,0.7,0.8,1,1.2,1.5,1.6,2,3,3.2,4,5,6,7,8,10,12,15,16,18,20,22,25,30,35,40,45,50,55,60,65,70,75,80,85,90,95,100,105,110,120,130,150,160,170,180,200
Al-Mg Alloy	A5056	Round Bar	D	5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,70,75,80,85,90,95,100,105,110,115,120,125,130,135,140,150,160,170,180,190,200,210,220,230,240,250,260,270,280,290,300,310,320,330,340,350,360,370,380,390,400,420
Al-Mg-Si Alloy	A6063	Square Bar	□	6,8,10,12,14,15,16,18,19,20,22,25,30,32,35,40,45,50,60,70,80,100

### Resin Type Materials

Type	Material Code	Shapes	Unit	Standard Size
Laminated Plywood	Bakelite	Plate	t	(0.5), (0.6), 0.8,1,1.2,1.5,1.6,2,2.5,3,4,5,6,8,10,12,15,16,20,25,30,35,40,50 <small>Figures in ( ) for cloth base only.</small>
Polyamide Resin	Nylon 6・66	Plate	t	5,10,15,20,25,30,40,50
		Bar	D	6,8,10,15,20,25,30,35,40,45,50,55,60,65,70,75,80,90,100,120,140,160,180,200
(MC Nylon)	MC nylon	Plate	t	5,7,10,12,15,20,25,30,35,40,45,50,60,70,80,90,100,110,120
		Bar	D	20,25,30,35,40,45,50,55,60,65,70,75,80,85,90,95,100,110,120,130,140,150,160,170,180,190,200,225,250,275,300,325,350,375,400,450,500,600
Acetal Resin	Polyacetal	Plate	t	5,6,8,10,12,15,20,25,30,35,40,50,60,70,80,90,100
		Bar	D	4,5,6,7,8,9,10,12,12.5,13,15,16,17,5,20,22,5,25,30,35,40,45,50,55,60,65,70,75,80,85,90,100,110,120, (130), (140), (150), (160), (180),200
General Methacrylic Resin Plate	Acryl	Plate	t	0.8,1,1.5,2,3,4,5,6,8,10,15,20,25,30

### Carbon Steel for Machine Structural Use and Alloy Steel

Japan Industrial Standards Standard Number Name	Code	Steel Type Related to Foreign Standards						
		I S O 683/1-10-11	A I S I SAE	B S 970Part1	D I N 17218-17200	N F A35-551-554	Γ O C T 1050-4543	
JIS G 4051 Carbon Steel for Machine Structural Use	S10C	C10	1010	040A10 045A10 045M10	CK10 C 10	XC10	10	
	S12C	—	1012	040A12	—	XC12	—	
	S15C	C15E4 C15M2	1015	055M15	CK15 C 15	—	15	
	S17C	—	1017	—	—	XC18 XC18S	—	
	S20C	—	1020	070M20	CK22 C 22	—	20	
	S22C	—	1023	—	CK22 C 22	—	—	
	S25C	C25 C25E4 C25M2	1025	070M26	—	XC25	25	
	S28C	—	1029	—	—	—	25 Γ	
	S30C	C30 C30E4 C30M2	1030	080A30 080M30	—	—	30 30 Γ	
	S33C	—	—	060A32 080A32	—	XC32	30 Γ	
JIS G 4102 Nickel-Chromium Steel	SNC236	—	—	—	—	—	40X	
	SNC415	—	—	—	—	—	—	
	SNC631	—	—	—	—	—	30NC11	
	SNC815	15NiCr13	—	655M13	—	—	—	
	SNC836	—	—	—	—	—	—	
	JIS G 4103 Nickel-Chromium Molybdenum Steel	SNCM220	20NiCrMo2 20NiCrMoS2	8615 8617 8620 8622	805A20 805M20 805A22 805M22	—	20NCD2	—
		SNCM240	41CrNiMo2 41CrNiMoS2	8637 8640	—	—	—	—
		SNCM415	—	—	—	—	—	—
		SNCM420	—	4320	—	—	—	20NCD2 (NFA)
		SNCM431	—	—	—	—	—	—
SNCM439		—	4340	—	—	—	—	
SNCM447		—	—	—	—	—	—	
SNCM416		—	—	—	—	—	—	
SNCM625		—	—	—	—	—	—	
SNCM630		—	—	—	—	—	—	
SNCM815	—	—	—	—	—	—		
JIS G 4104 Chrome Steel	SCr415	16MnCr5 16MnCrS5	—	—	—	16MC5	15X 15XA	
	SCr420	20Cr4 20CrS4	5120	—	—	20MC5	20X	
	SCr430	34Cr4 34CrS4	5130 5132	530A30 530A32	34Cr4	32C4	30X	
	SCr435	34Cr4 34CrS4 34CrS4	5135	530A36	34Cr4 37Cr4	38C4	35X	
	SCr440	37Cr4 37CrS4 41Cr4 41CrS4	5140	530A40 530M40	37Cr4 41Cr4	42C4	40X	
	SCr445	—	5147 <sup>1)</sup>	—	—	45C4	45X	
	SCM415	—	—	—	—	—	—	
	SCM418	18CrMo4 18CrMoS4	—	—	—	18CD4	20XM	
	SCM420	—	—	708M20	—	—	20XM	
	SCM421	—	—	—	—	—	—	
SCM430	—	4130	708A30	—	30CD4	20XM 30XMA		
SCM432	—	—	—	—	—	—		
SCM435	34CrMo4 34CrMoS4	4135 <sup>1)</sup> 4137	708A37 708A37	34CrMo4	34CD4 35CD4 38CD4	35XM		
SCM440	42CrMo4 42CrMoS4	4140 4142	708A40 708M40 708A42 708A42	42CrMo4	42CD4	—		
SCM445	—	4145 4147	708A47	—	—	—		
SCM822	—	—	—	—	—	—		
JIS G 4107 High-Temperature Alloy Steel for Bolts	SNB5	—	501	BS1506-625	—	—	—	
	SNB7	—	4140 4142 4145	708A40 708M40 708A42 708A42 BS1506-621 Grade A	42CrMo4 <sup>3)</sup>	42CD4	—	
	SNB16	—	—	BS1506-661 BS1506-661	40CrMoV47 <sup>3)</sup> 40CrMoV47 <sup>3)</sup>	42CDV4 <sup>4)</sup> 42CDV4 <sup>4)</sup>	—	
JIS G 4108 Steel Bar for Special-Purpose Alloy Bolts	SNB21-1-5	—	—	—	—	—	—	
	SNB22-1-5	—	4142	708A42 708A42	42CrMo4 <sup>3)</sup>	42CD4	—	
	SNB23-1-5	—	E4340	—	—	—	—	
SNB24-1-5	—	—	—	—	—	—		

Note : 1) Not specified by AISI.  
 2) DIN  
 3) DIN 17240, DIN 1654Part4  
 4) NFA 35-558

※ISO(International Standard), AISI (USA), BS (UK), DIN (Germany), NF (France), Γ OCT (Russia)