

# Comparison Table of Material

## ● Steel

Material name	JIS	ISO	EN	SAE	ASTM
Hot-rolled mild steel plate and steel strip	SPHC	HR1	-	-	Type A Type B Type C Type D
	SPHD	HR2	DD11 DD12 DD13 DD14	-	Type A Type B
	SPHE	HR3 HR4	-	-	-
Cold-rolled steel plate and steel strip	SPCC	CR1	DC01 DC03 DC04 DC05 DC06 DC07	-	A B C
	SPCD	CR2	-	-	A B
	SPCE	CR3 CR4 CR5	-	-	-
Carbon steel materials for machine structure	S25C	C25 C25E4 C25M2	C25 C25E C25R	1025	-
	S35C	C35 C35E4 C35M2	C35 C35E C35R	1035	-
	S45C	C45 C45E4 C45M2	C45 C45E C45R	1045	-
Chrome steel materials	SCr430	-	-	5130	-
	SCr435	34Cr4 34CrS4	-	5132	-
	SCr440	41Cr4 41CrS4	41Cr4 41CrS4	5140	-
Chromium-molybdenum steel materials	SCM430	-	-	4130	-
	SCM435	34CrMo4 34CrMoS4	-	4137	-
	SCM440	42CrMo4 42CrMoS4	42CrMo4 42CrMoS4	4140	-
Carbon tool steel materials	SK3	C105U	-	-	W1-10
High carbon chrome bearing steel materials	SUJ2	B1	-	-	52100
	SUJ3	B2	-	-	Grade 1
Carbon steel forgings	SF340A	-	-	-	Class A
	SF440A	-	C45 P280GH	-	Class C
	SF540A	-	C60	-	Class C

## ● Steel

Material name	JIS	ISO	EN	SAE	ASTM
Carbon steel castings	SC360	200 - 400	GS200	-	-
	SC410	200 - 400	GS240	-	60 - 30
	SC450	230 - 450	-	-	65 - 35
	SC480	270 - 480W	G17Mn5	-	WCC
Gray cast iron	FC150	ISO 180/JL/200	EN-GJL-150	-	Class No.150B
	FC200	ISO 185/JL/200	EN-GJL-200	-	Class No.200B
	FC250	ISO 185/JL/250	EN-GJL-250	-	Class No.250B
	FC300	ISO 185/JL/300	EN-GJL-300	-	Class No.300B
Nodular graphite cast iron	FCD400-18	400 - 18S	EN-GJS-400-18	-	60 - 40 - 18
	FCD450-10	450 - 10S	EN-GJS-450-10	-	65 - 45 - 12
	FCD500-7	500 - 7S	EN-GJS-500-7	-	-
	FCD600-3	600 - 3	EN-GJS-600-3	-	80 - 55 - 06

## ● Stainless Steel

JIS	ISO	EN	ASTM
SUS302	-	-	S30200
SUS303	X10CrNiS18-9	1.4305	S30300
SUS304	X5CrNi18-9	1.4301	S30400
SUS310S	X8CrNi25-21	-	S31008
SUS316	X5CrNiMo17-12-2	1.4401	S31600
SUS316L	X2CrNiMo17-12-2	1.4404	S31603
SUSXM7	X3CrNiCu18-9-4	1.4567	S30430
SUS403	-	-	S40300
SUS410	X12Cr13	1.4006	S41000
SUS416	X12CrS13	1.4005	S41600
SUS430	X6Cr17	1.4016	S43000
SUS431	X17CrNi16-2	1.4057	S43100
SUS434	X6CrMo17-1	1.4113	S43400
SUS440C	-	1.4125	S44004
SUS631	X7CrNiAl17-7	1.4568	S17700

## ● Aluminum Alloy

JIS	ISO	EN	ASTM
A2011	AlCu6BiPb	EN AW-2011	2011
A2014	AlCu4SiMg	EN AW-2014	2014
A2017	-	-	2017
A2024	AlCu4MgI	EN AW-2024	2024
A3003	AlMn1Cu	EN AW-3003	3003
A3004	-	EN AW-3004	3004
A5005	AlMg1	EN AW-5005	5005
A5052	AlMg2.5	EN AW-5052	5052
A6061	AlMg1SiCu	EN AW-6061	6061
A6063	AlMg0.7Si	EN AW-6063	6063
A7075	AlZn5.5MgCu	EN AW-7075	7075