

## 碳 鋼 Carbon Steels

相當規格 COMP. SPEC.			化學成份 (Chemical Composition)								
JIS	AISI	DIN	C	Si	Mn	P	S	Ni	Cr	tot	V
SWRCH8	1008		≤0.08	-	≤0.60	≤0.040	≤0.040	-	-	-	-
S15C	1015	CK15	0.13-0.18	0.15-0.35	0.30-0.60	≤0.030	≤0.035	-	-	-	-
S20C	1021	CK21	0.18-0.23	0.15-0.35	0.30-0.60	≤0.030	≤0.035	-	-	-	-
SWRH42B	1042		0.39-0.46	0.15-0.35	0.60-0.90	≤0.040	≤0.040	-	-	-	-
S45C	1045	CK45	0.42-0.48	0.15-0.35	0.60-0.90	≤0.030	≤0.035	-	-	-	-
SWRCH72B	1070	CK67	0.69-0.76	0.15-0.35	0.60-0.90	≤0.030	≤0.030	-	-	-	-

## 碳素工具鋼 Carbon Tool Steels

相當規格 COMP. SPEC.			化學成份 (Chemical Composition)								
JIS	AISI	DIN	C	Si	Mn	P	S	Ni	Cr	Mo	V
SK4	1090		0.90-1.00	≤0.35	≤0.5	≤0.030	≤0.030	-	-	-	-

## 耐衝擊工具鋼 Alloy Tool Steels

相當規格 COMP. SPEC.			化學成份 (Chemical Composition)								
JIS	AISI	DIN	C	Si	Mn	P	S	Ni	Cr	Mo	V
	S2 M		0.65-0.70	1.00-1.25	0.45-0.60	≤0.025	≤0.025	-	0.10-0.30	0.40-0.50	0.15-0.25

## 快削鋼 Free Cutting Steels

相當規格 COMP. SPEC.			化學成份 (Chemical Composition)								
JIS	AISI	DIN	C	Si	Mn	P	S	Ni	Cr	Mo	Pb
SUM23	1215	9SMn36	≤0.09	-	0.75-1.05	0.04-0.09	0.26-0.35	-	-	-	-
SUM24L	12L14	9SMnPb36	≤0.15	-	0.85-1.15	0.04-0.09	0.26-0.35	-	-	-	0.10-0.35
SUM43	1144		0.40-0.48	-	1.35-1.65	≤0.040	0.24-0.33	-	-	-	-
S45CL	10L45		0.42-0.48	0.15-0.35	0.60-0.90	≤0.030	≤0.035	-	-	-	0.10-0.35
SCM415L			0.13-0.18	0.15-0.35	0.60-0.85	≤0.030	0.04-0.07	-	0.90-1.20	0.15-0.30	0.10-0.30

### 鉻鉬合金鋼 Cr-Mo Steels

相當規格 COMP. SPEC.			化學成份 (Chemical Composition)								
JIS	AISI	DIN	C	Si	Mn	P	S	Ni	Cr	Mo	V
SCM415	4115	15CrMo5	0.13-0.18	0.15-0.35	0.60-0.85	≤0.030	≤0.030	-	0.90-1.20	0.15-0.30	-
SCM420	4118	18CrMo4	0.16-0.21	0.15-0.35	0.60-0.85	≤0.030	≤0.030	-	0.90-1.20	0.15-0.30	-
SCM435	4135	34CrMo4	0.33-0.38	0.15-0.35	0.60-0.85	≤0.030	≤0.030	-	0.90-1.20	0.15-0.30	-
SCM440	4140	42CrMo4	0.38-0.43	0.15-0.35	0.60-0.85	≤0.030	≤0.030	-	0.90-1.20	0.15-0.30	-

### 中碳合金鋼 Medium-Carbon Alloy Steels

相當規格 COMP. SPEC.			化學成份 (Chemical Composition)								
JIS	CSC	DIN	C	Si	Mn	P	S	Ni	Cr	Al	V
	35ACR		0.35-0.39	≤0.10	0.60-0.90	≤0.030	≤0.030	-	0.20-0.40	≥0.010	-
	40ACR		0.40-0.44	≤0.10	0.60-0.90	≤0.030	≤0.030	-	0.20-0.40	≥0.010	-

**鎳鉻鉬鋼 Ni-Cr-Mo Steels**

相當規格 COMP. SPEC.			化學成份 (Chemical Composition)								
JIS	AISI	DIN	C	Si	Mn	P	S	Ni	Cr	Mo	V
SNCM220	8620	21NiCrMo2	0.17-0.23	0.15-0.35	0.60-0.90	≤0.030	≤0.030	0.40-0.70	0.40-0.65	0.15-0.30	-
	8660+V		0.56-0.64	0.15-0.35	0.75-1.00	≤0.035	≤0.040	0.40-0.70	0.40-0.60	0.15-0.25	0.15-0.25

**鉻釩鋼 Cr-V Steels (Spring Steels)**

相當規格 COMP. SPEC.			化學成份 (Chemical Composition)								
JIS	AISI	DIN	C	Si	Mn	P	S	Ni	Cr	Mo	V
	6145		0.43-0.48	0.15-0.35	0.60-0.90	≤0.030	≤0.030	-	0.50-0.70	-	0.10-0.15
SUP 9	5155	55Cr3	0.52-0.60	0.15-0.35	0.65-0.95	≤0.035	≤0.035	-	0.65-0.95	-	-
SUP10	6150	50CrV4	0.47-0.55	0.15-0.35	0.65-0.95	≤0.035	≤0.035	-	0.80-1.10	-	0.15-0.25

**軸承鋼 High C-Cr Steels (Bearing Steels)**

相當規格 COMP. SPEC.			化學成份 (Chemical Composition)								
JIS	AISI	DIN	C	Si	Mn	P	S	Ni	Cr	Mo	V
SUJ2	52100	100Cr6	0.95-1.10	0.15-0.35	≤0.50	≤0.025	≤0.025	-	1.30-1.60	-	-

模具鋼 Alloy Tool Steels (Die Steels)

相當規格 COMP. SPEC.			化學成份 (Chemical Composition)								
JIS	AISI	DIN	C	Si	Mn	P	S	Ni	Cr	Mo	V
SKD61	H13	X40CrMnV51	0.32-0.42	0.80-1.20	≤0.50	≤0.030	≤0.030	-	4.50-5.50	1.00-1.50	0.80-1.20
DC53			0.90-1.10	適量	適量	≤0.030	≤0.030	-	7.00-9.00	0.80-2.20	適量

硼鋼 B Steels

相當規格 COMP. SPEC.			化學成份 (Chemical Composition)								
JIS	AISI	DIN	C	Si	Mn	P	S	Ni	Cr	B	V
	10B21		0.18-0.23	≤0.10	0.70-1.00	≤0.030	≤0.035	-	-	>0.0005	-
	50BV30		0.27-0.33	≤0.10	0.70-1.00	≤0.030	≤0.035	-	0.30-0.50	>0.0005	0.10-0.50