



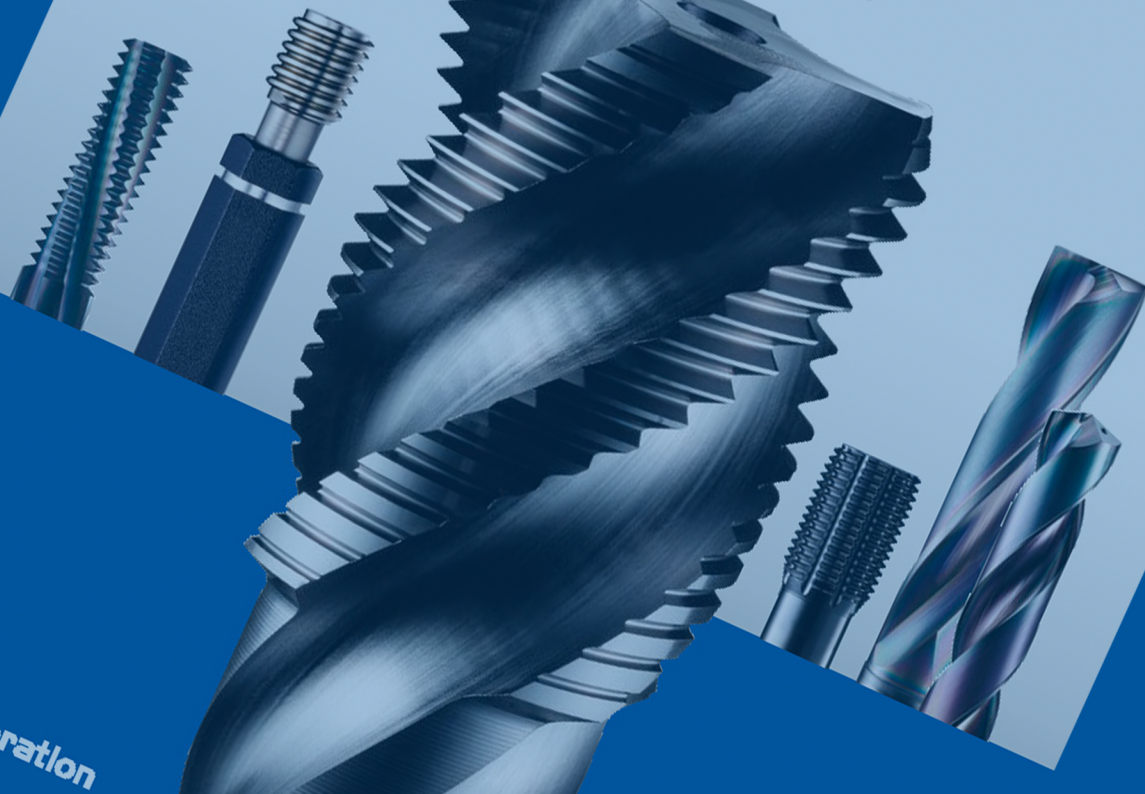
技術情報

Technical Information

材質規格比較表

Material Symbols

DRILLING
THREADING
TOOLS
2019-2020



材料規格比較表(抜粋) MATERIAL SYMBOL CHART BY STANDARD

材料区分 Description	Japan JIS	U.S.A. ASTM/AISI	Germany DIN	ISO
一般構造用鋼 General Structural Steel	SM490A			
	SM490B			
	SM570	C		
	SS400			
	SS330	A	St33	
		B		
		C		
		30		
		33		
		36		
		40		
	SS490	70	St52-3	
	SS540	C		
	SM490A	D		
	SM490B	E		
SM490C	A			
SM490Y	B			
SM520	50W			
SV330	A	USt36		
SV400	B			
炭素鋼 Carbon Steel	S15C	1015	C15E C15R C15E	C15E4 C15M2
	S15CK		C15E	
	S20CK		C20E	
	S25C	1025	C25 C25E C25R	C25 C25E4 C25M2
	S45C	1045 1046	C45 C45E C45R	C45 C45E4 C45M2
	S50C	1050	C50 C50E C50R	C50 C50E4 C50M2
	SB410	Grade60	P265GH	PH265
	SB450	Grade65	P265GH	PH290
	SB450 M	GradeA		
	SB480	Grade70		
	SB480 M	GradeB	P355GH	PH315
	SCM415			
	SCM415H		18CrMo4 18CrMoS4	18CrMo4 18CrMoS4
	SCM418H			
	SCM420			
SCM421		22CrMoS35		
SCM430	4130			
SCM432				
SCM435	4135	34CrMo4	34CrMo4	
	4137	34CrMoS4V	34CrMoS4	
SCM435H	4135H	34CrMo4	34CrMo4	
	4137H	34CrMoS4	34CrMoS4	
SCM440	4140	42CrMo4	42CrMo4	
	4142	42CrMoS4	42CrMoS4	
SCM440H	4140H	42CrMo4	42CrMo4	
	4142H	42CrMoS4	42CrMoS4	
SCM445	4145 4147			
SCM445H	4145H			
SCM822				
SCM822H				
SCr415		17Cr3		
		17CrS3		
SCr415H		17Cr3		
		17CrS3		
SCr420	5120		20Cr4 20CrS4	
SCr420H	5120H		20Cr4H 20CrS4	
SCr430	5130	34Cr4	34Cr4	
	5132	34CrS4	34CrS4	
SCr430H	5130H	34Cr4	34Cr4	
	5132H	34CrS4	34CrS4	
SCr435	5135	37Cr4	37Cr4	
		37CrS4	37CrS4	
			37Cr4	
			37CrS4	
SCr435H	5135H	37Cr4	37Cr4	
		37CrS4	37CrS4	
SCr440	5140	41Cr4	41Cr4	
		41CrS4	41CrS4	
SCr440H	5140H	41Cr4	41Cr4	
		41CrS4	41CrS4	
			41Cr4	
			41CrS4	
SCr445				

材料区分 Description	Japan JIS	U.S.A. ASTM/AISI	Germany DIN	ISO	
合金鋼 Alloy Steel	SMn420	1522		22Mn6	
	SMn420H	1522H		22Mn6H	
	SMn433	1536			
	SMn433H				
	SMn438	1541		36Mn6	
	SMn438H	1541H		36Mn6H	
	SMn443	1541		42Mn6	
	SMn443H				
	SNC236				
	SNC415				
	SNC415H				
	SNC631				
	SNC631H				
	SNC815		15NiCr13	15NiCr13	
	SNC815H		15NiCr13	15NiCr13	
	SNC836				
	SNCM220	8615	20NiCrMo2-2	20NiCrMo2	
		8617	20NiCrMoS2-2	20NiCrMoS2	
		8620			
		8622			
SNCM220H	8617H	20NiCrMo2-2	20NiCrMo2		
	8620H	20NiCrMoS2-2	20NiCrMoS2		
	8622H				
SNCM240	8637		41CrNiMo2		
	8640		41CrNiMoS2		
SNCM415					
SNCM420	4320				
SNCM420H	4320H				
SNCM431					
SNCM439	4340				
SNCM447					
SNCM616					
SNCM625					
SNCM630					
SNCM815					
炭素工具鋼 Carbon Tool Steel	SK140				
	SK120	W1-11 1/2		C120U	
	SK105	W1-10	C105W1	C105U	
	SK95	W1-9			
	SK90			C90U	
	SK85	W1-8	C80W1		
	SK80			C80U	
	SK75	W1-7	C80W1		
	SK65		C70W2		
	SKS2		105WCr6	105WCr1	
	SKS11	F2			
	SKS21				
	SKS31		105WCr6	105WCr1	
	SKS41				
SKS43	W2-91/2		TCV105		
SKS44	W2-81/2				
SKS51	L6				
SUJ2	52100	100Cr6	1		
ダイス鋼 Die Steel	SKD11	D2			
	SKD61	H13	X40CrMoV51	40CrMoV5	
高速度鋼 High Speed Steel	SKH2	T1		HS18-01	
	SKH50			HS-1-8-1	
	SKH51	M2		HS-6-5-2	
	SKH52	M3-1		HS6-5-2	
	SKH53	M3-2		HS6-5-3	
	SKH54	M4		HS6-6-4	
	SKH55			HS6-5-2-5	
	SKH56	M36			
	SKH57			HS10-4-3-10	
	SKH58	M7		HS2-9-2	
	SKH59	M42		HS2-9-1-8	
	工具鋼 Tool Steel	SKT3			
		SKT4			55NiCrMoV7
		SKT6			45NiCrMoV16
パイプ鋼 Pipe Steel	STAM290GB				
	SGP	TypeF	St33		
	STKM11A	1008	St34-2		
	STPT370	A	St35.8		
	STB340		St35.8		
	St37.8				
	STPG370	E-A	St37.0		
		A			
	STS370		St37.4		
	STPT410	B	St42.8		
	STB410	C	St42.8		
		A-1	St45.8		
	STPG410	E-B	St44.0		
		B	St44.0		
	STK400		St44-2	TS9	
	STKM12B		St44-2		

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材料区分 Description	Japan JIS	U.S.A. ASTM/AISI	Germany DIN	ISO
パイプ鋼 Pipe Steel	STKR400		St44-2	
	STAM390G		St44-2	
	STS410		St44.4	
	STKM14A		St45	
	STKM13C	1020	St45	
	STKM18C		St52	
	STKM19A		St52	
	STKM19C		St52	
	STK490		St52-3	TS18
	STKR490		St52-3	
	STS480		St52.4	
	STKM12A			R33
	STKM12B		St44-2	
	STKM13A	1020		
	STKM13C	1020	St45	
	STKM14B	1026		
		1025		
	STKM14C	1026		
		1025		
	STKM17A	1050		
STKM18B			R50	
STKM18C		St52		
		St52-3		
STKM19A		St52		
STKM19C		St52		
耐熱鋼 Heat Resistant Steel	SUH1	S65007		X45CrSi93
	SUH3			
	SUH4			
	SUH11			X50CrSi182
	SUH21			
	SUH31			
	SUH35			X53CRMnNiN219
	SUH36	S63008		
	SUH37	S63017		
	SUH38			
	SUH309	S30900		
	SUH310	S31000		
	SUH330	N08330		
	SUH409	S40900	X6CrTi12	L-No37x6CrTi12
	SUH409L			L-No36X2CrTi12
	SUH446	S44600		X15CrN26
SUH600				
SUH616	S42200			
SUH660	S66286			
SUH661	R30155			
快削鋼 Free Cutting Steel	SUM11	1110		
	SUM12	1109		
	SUM21	1212		9520
	SUM22	1213	95Mn28	115Mn28
	SUM22L	12L13	95MnPb28	115MnPb
	SUM23	1215		
	SUM23L	12L15		
	SUM24L	12L14	95MnPb28	115MnPb28
	SUM25		95Mn36	125Mn35
	SUM31	1117	15510	
	SUM31L	11L17		
	SUM32			
	SUM41	1137		
	SUM42	1141		
SUM43	1144		445Mn28	
ばね鋼 Spring Steel	SUP3	1078		59Si7
	SUP6			59Si7
	SUP7	9260		55Cr3
	SUP9	5155	55Cr3	55Cr3
	SUP9A	5160		
	SUP10	6150	50CrV4	51CrV4
	SUP11A	51B60		60CrB3
	SUP12		54SiCr6	55SiCr63
	SUP13	4161		60CrMo32
	ステンレス鋼 Stainless Steel	SUS304	S30400	X5CrNi1810
SUS405		S40500	X6CrAl13	L-No40X6Cr13
SUS420F		S42020		
SUS430		S43000	X6Cr17	L-No41X6Cr17
SUS430LX		S43035	X6CrNb17	L-No44X3CrTi17
SUS440A		S44002		
SUS630		S17400		L-No58X3CrNiCuNb16-4
SUS631		S17700	X7CrNiAl177	L-No59X7CrNiAl17-7
SUS410		S41000	X10Cr13	L-No48X12Cr13
鋳鋼 Cast Steel		SCH15	HT	
		HT50		
鋳鉄 Cast Iron	FC250	Class No.35		250
	FC300	Class No.45		300
ダクタイル鋳鉄 Ductile Cast Iron	FCD400-18	60-40-18	EN GJS-400-18	400-18
	FCD400-15	60-40-18	EN GJS-400-18	400-15
	FCD600-3	80-55-06	EN GJS-600-3	600-3

材料区分 Description	Japan JIS	U.S.A. ASTM/AISI	Germany DIN	ISO
アルミニウム合金 Aluminum Alloy	A1080P			
	A1070P			
	A1050P			EN AW-1050A
	A1100P	1100		
	A1200P			EN AW-1200
	A2014P	2014		EN AW-2014
	A2017P			
	A2017AP	2014		EN AW-2017
	A2024P	2024		EN AW-2024
	A2024PC	Alclad 2024		
	A2024BE	2024		EN AW-2024
	A2024BD	2024		EN AW-2024
	A2024W	2024		EN AW-2024
	A2024TD	2024		EN AW-2024
	A2024S	2024		EN AW-2024
	A3003P	3003		EN AW-3003
	A5052P	5052		EN AW-5052
	A5052BE	5052		EN AW-5052
	A5052BD	5052		EN AW-5052
	A5052W	5052		EN AW-5052
	A5052TD	5052		EN AW-5052
	A5052TWA	5052		
	A5052S	5052		EN AW-5052
	A5052FH			
	A5083BD			EN AW-5083
	A5083W			EN AW-5083
	A5083TE	5083		EN AW-5083
	A5083TD	5083		EN AW-5083
	A5083TWA	5083		
	A5083S	5083		EN AW-5083
A6061P	6061		EN AW-6061	
A6063TE	6063		EN AW-6083	
A7075P	7075		EN AW-7075	
A7075BE	7075		EN AW-7075	
A7075BD	7075		EN AW-7075	
A7075TE	7075		EN AW-7075	
A7075TD	7075		EN AW-7075	
A7075S	7075		EN AW-7075	
A7075FH	7075		EN AW-7075	
A7075FD	7075		EN AW-7075	
アルミニウム合金鋳物 Aluminum Alloy Casting	AC1A			
	AC1B	204.2		
	AC2A			
	AC2B	319.2		
	AC3A			
	AC4A			
	AC4B	333.1		EN AB-46200
	AC4C	356.2		EN AB-42000
	AC4CH	A356.2		EN AB-42100
	AC4D	355.1		EN AB-45300
	AC5A	242.1		
	AC7A	514.2		
	AC7B			
	AC8A	336.1		EN AB-48000
AC8B				
AC8C	332.1			
AC9A				
AC9B				
ADC1	A413.0			
ADC3	A360.0			
ADC5	518.0			
ADC6				
ADC10				
ADC10Z	A380.0			
ADC12				
ADC12Z	383.0			
ADC14	A390.0			
マグネシウム合金 Magnesium Alloy	MD1A			
	MD1B	AZ91B		
	MD1D	AZ91D		EN-MB21120
	MD2B	AM60B		EN-MB21230
	MD3B	AS41B		EN-MB21320
	MD4	AM50A		EN-MB21220
	MD5			EN-MC21210
MD6	AS21A		EN-MB21310	
銅、銅鋳物 Copper, Copper Casting	C1020P	C10200(B152:97)		OF-Cu
	C1020PS	C10200(B152:97)		OF-Cu
	C1020R	C10200(B152:97)		OF-Cu
	C1020RS	C10200(B152:97)		OF-Cu
黄銅、黄銅鋳物 Brass, Brass Casting	C2600P	C26000(B36:01)	17660:83	CuZn30
	C2600R	C26000(B36:01)	17660:83	CuZn30
	C2600RS	C26000(B36:01)	17660:83	CuZn30
青銅、青銅鋳 Bronze, Bronze Casting	C6140P	C61400(B169:01)		