

For identifying the features of machine materials

Standard Piece Sets of JIS Steel Materials

Standard Pieces for the Spark Test

JIS G0566-1980 compliant



Pure iron(0.01 C)

Group K for Educational Applications

SCM415(0.15C, 1Cr, 0.2Mo)

Standard Piece Sets for the Spark Test

Group for Educational Applications(15Pieces)

Group K		
Steel Type	JIS Symbol	Chemical Components(%)
Pure iron	SUY	0.02C
Carbon steel for machine structural use	S10C	0.1C
	S20C	0.2C
	S45C	0.45C
Carbon tool steel	SK105	1.05C
Alloy tool steel	SKS2	1.05C, 0.8Cr, 1W
	SKD11	1.5C, 12Cr, 1Mo, 0.4V
	SKD61	0.37C, 1Si, 5Cr, 1Mo, 1V
High-speed tool steel	SKH55	0.9C, 6W, 5Mo, 4Cr, 2V, 5Co
High-carbon chrome bearing steel	SUJ2	1C, 1.5Cr
Alloy steel for machine structural use	SCM440	0.4C, 1Cr, 0.2Mo
	SCM415	0.15C, 1Cr, 0.2Mo
Stainless steel	SUS420J2	0.35C, 13Cr
	SUS304	0.06C, 19Cr, 10Ni
	SUP6	0.6C, 1.7Si, 0.9Mn

Group for Specialized Applications(15Pieces Each)

Carbon Steel Group F		Tool Steel Group G		Structural and Special Steel Group H	
Pure iron	SUY	Alloy tool steel for cutting tool	SKS2	Alloy steel for machine structural use	SNC631
Carbon steel for machine structural use	S10C	for cold mold tool	SKS3		SNC415
	S15C	for impact-resistant tool for cold mold tool	SKS4		SNCM447
	S20C		SKS93		SNCM420
	S30C	for hot mold tool	SKD11		SCr440
	S35C		SKD4		SCr420
	S40C		SKD61		SCM440
	S45C		SKT4		SCM415
	S50C	High-speed tool steel for cutting general materials	SKH2	Stainless steel Martensitic	SUS410
	S55C	for cutting difficult-to-cut materials	SKH4		SUS420J2
Carbon tool steel	SK85		SKH51	Ferritic	SUS430
	SK105	for general cutting of tough materials	SKH57	Austenitic	SUS304
Carburized	S10C	for high-speed cutting of tough materials	SUJ2		SUS316
Rimmed steel	SWRCH10R	High-carbon chrome bearing steel	SKS3	Heat-resisting steel	SUH3
Gray iron	FC30	Quenching		Spring steel	SUP6



YAMAMOTO SCIENTIFIC TOOL LABORATORY CO., LTD.

2-15-4, Sakae-cho, Funabashi-shi, Chiba Pref., 273-0018 Japan

Tel. +81-47-431-7451 Fax. +81-47-432-8592

http://www.ystl.jp