

www.sungilsteel.co.kr



(주)성일특수강
SUNGIL SPECIAL STEEL CO., LTD.

Special Steel's Front-runner of Development

SUNG IL SPECIAL STEEL

주식회사 성일특수강은 최고의 제품에 필수적인 열처리 소재를 최상의 품질로 제공하기 위해 노력해오고 있습니다. 회사를 운영해오면서 가장 중요하게 생각해 왔던 가치는 기본에 충실하자입니다. 저희는 최고품질의 제품생산을 최우선 가치로 삼아 한국의 열처리의 발전에 기여해 왔다고 생각합니다.

저희 성일 특수강은 깨끗한 환경에서 우수한 제품이 생산 된다는 믿음으로 일하기 즐거운 작업환경을 조성하기 위해 노력해왔습니다. 이와 같은 노력으로 2회 연속으로 클립 사업장으로 선정되었습니다. 2006년부터는 열처리가 중요한 공업용 커터날을 생산해오고 있습니다. 현재 전 세계 여러 나라에 수출함으로써 대한민국 수출에 작게나마 기여하고 있다는 뿌듯함을 가지고 회사를 운영하고 있습니다.

발전하는 회사, 발전하는 직원, 발전하는 대한민국이라는 마음가짐으로 더 좋은 회사로 발전하도록 노력하겠습니다.

We, Sungil Special Steel Co.,Ltd, have been doing our best to manufacture good harden tempered steel stips with good quality for the best product material. Our company value is "Focus on the basics". We have been contributing to the development of Korean heat treatment industry.

We, Sungil Special Steel Co.,Ltd, are always making our workplace clean to help manufacture best quality products. Consequently, Sungil Special Steel Co.,Ltd was appointed to Clean Workplace by Ministry of Employment and Labor for two years in a row. From 2006, we have started manufacturing snap off cutter blades. We have been exporting cutter blades to many countries.

We are always doing our best to become better with the principle that "Better company, Better employee, Better nation".

History

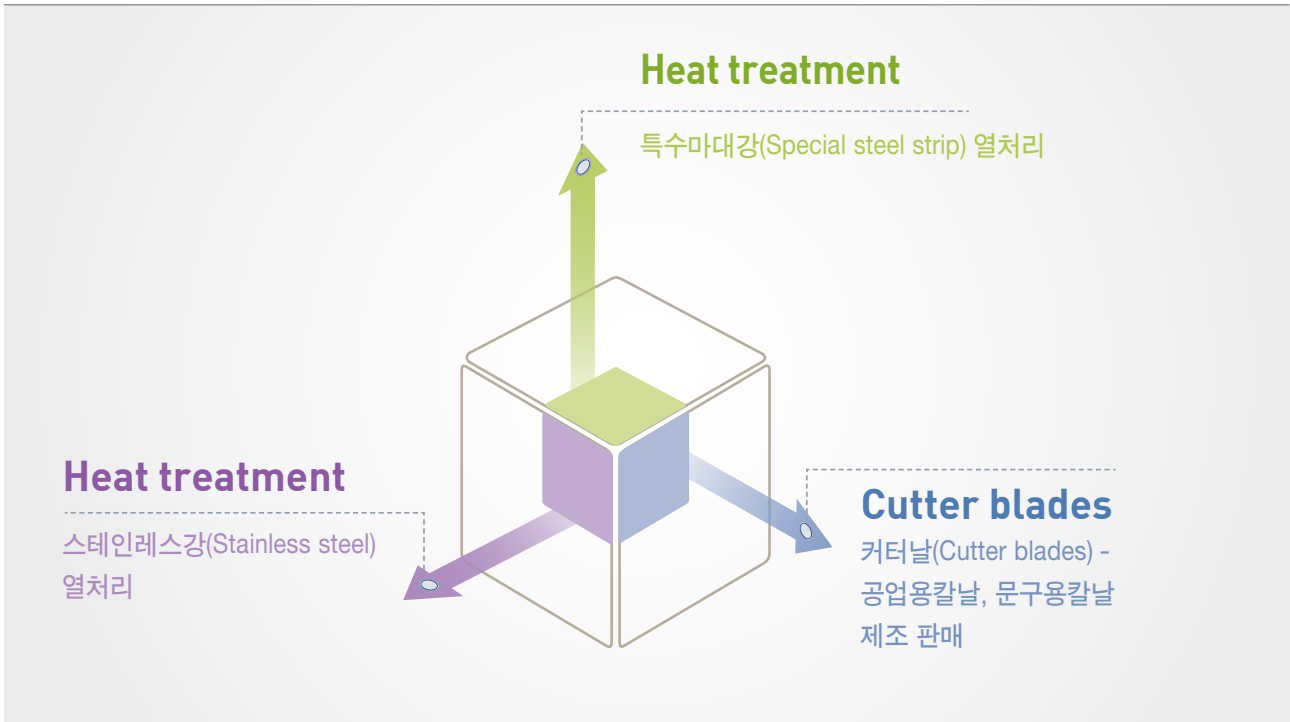
- ▶ 1997. 08. 성일특수금속 창립
- ▶ 2000. 07. 브라운관용 스테인레스 강대 납품
- ▶ 2001. 04. 주식회사 성일특수강으로 법인전환
- ▶ 2001. 07. 실용신안(마르텐사이트계 스테인레스 냉연강 코일의 무산화 연속냉각) 등록
- ▶ 2004. 06. 수직로 설비라인 및 표면연마기, 면취기 대만수출
- ▶ 2004. 08. 자동차 클러치용 부품 열처리 생산
- ▶ 2005. 08. 자동차 와이퍼용 소재 개발, 납품
- ▶ 2005. 10. 국제공인인증 ISO 9001 획득 (금속열처리 및 열처리 기계의 제작과 판매)
- ▶ 2006. 10. 인천시 남동구 고잔동으로 사옥 신축이전
- ▶ 2006. 12. 수직로(250Kw)자사제작 설비시설 완료 (월 300톤생산)
- ▶ 2007. 03. SUS420J2 무산화 연속로 라인제작
- ▶ 2007. 10. 클린사업장으로 지정
- ▶ 2010. 03. 경영혁신형 중소기업(MAIN-BIZ) 선정
- ▶ 2012. 06. 중소기업청 수출유망기업 선정
- ▶ 2013. 04. 중소기업청 수출역량강화사업 선정
- ▶ 2013. 12. 제50회 무역의 날 백만불 수출의 탑 수상



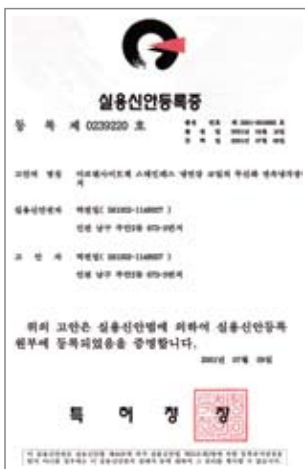
- | | | | |
|-------------|--|-------------|---|
| ▶ Aug. 1997 | SUNGIL Special Steel Founded | ▶ Dec. 2006 | Equipped with self-production equipment for Vertical Type(250Kw) |
| ▶ Jul. 2000 | Stainless for braun tube supply to Samsung SDI | ▶ Mar. 2007 | Produced SUS420J2 Not oxidized continuous line and supplied to Changrip, Korean company |
| ▶ Apr. 2001 | Changed to SUNGIL Special Steel Co.,Ltd | ▶ Oct. 2007 | Certificated as a clean workplace |
| ▶ Jul. 2001 | Registered Utility models
(martensite, Cold-rolled stainless, not oxidized continuous cooling for coil) | ▶ Mar. 2010 | Selected as a innovative small and medium sized business |
| ▶ Jun. 2004 | Exported Vertical Type, Strip edge trimming machine and Edging | ▶ Jun. 2012 | Selected as a Promising Export Firm by the Small & Medium Business Administration of Korea. |
| ▶ Aug. 2004 | Produced clutch part for car | ▶ Apr. 2013 | Selected as a Export Competence Increase Service by the Small & Medium Business Administration of Korea |
| ▶ Aug. 2005 | Produced and supplied steel strips for car wipers | ▶ Dec. 2013 | Awarded 1 million dollars export tower |
| ▶ Oct. 2005 | Achieved ISO 9001 for steel heat treatment and equipment production | | |
| ▶ Oct. 2006 | Moved to new factory building for expansion | | |

Special Steel's Front-runner of Development
SUNG IL SPECIAL STEEL

Business Field (사업분야)



Certificates (인증서)



Utility Models



Innovative Small and Medium Business



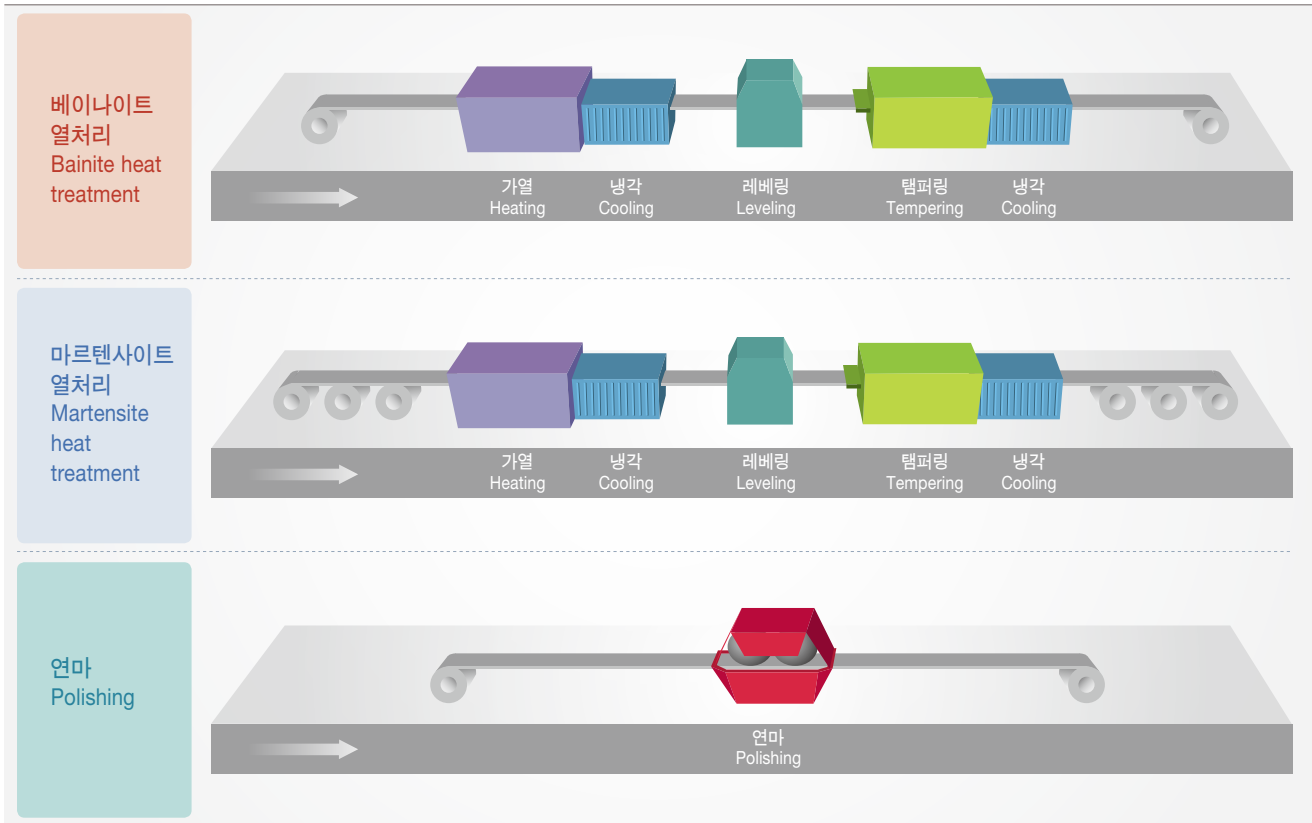
ISO 9001



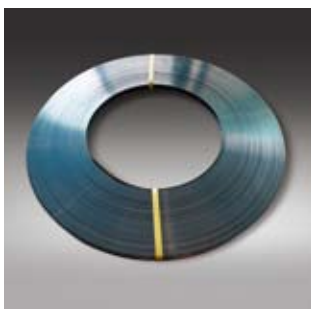
Promising Export Firm

We, Sungil Special Steel Co.,Ltd, have been doing our best to manufacture good harden tempered steel strips with good quality for the best product material.

Production Process(생산공정)



Process of Packing (포장순서)



오일도포
(Spreading rust-preventing oil)



비닐포장
(Plastic wrapping)



마대코팅지포장
(Fabric coating paper)



밴딩고정(Steel strip banding)/파렛트
혹은 우든상자포장
(Steel pallet or Wooden box)

Special Steel's Front-runner of Development
SUNG IL SPECIAL STEEL



Application Products (제품소개)

- 공구(Tool) - 흙손(Trowel), 톱(Saw), 예초기날(Brush cutter), 헤라(Hera)
- 섬유/식품부분(Textile/Food part)
 - 종광(Heald), 원형칼(Circular cutter), 니들(Needle), 식품용칼(Blade for food)
- 자동차부품(Auto parts) - 와이퍼(Wiper), 오일측정기(Oil gauge), 클러치부품(Clutch parts)
- 사무용/공업용칼날(Spare blades)



We, Sungil Special Steel Co.,Ltd, have been doing our best to manufacture good harden tempered steel strips with good quality for the best product material.



Spare blades (사무용/공업용칼날)

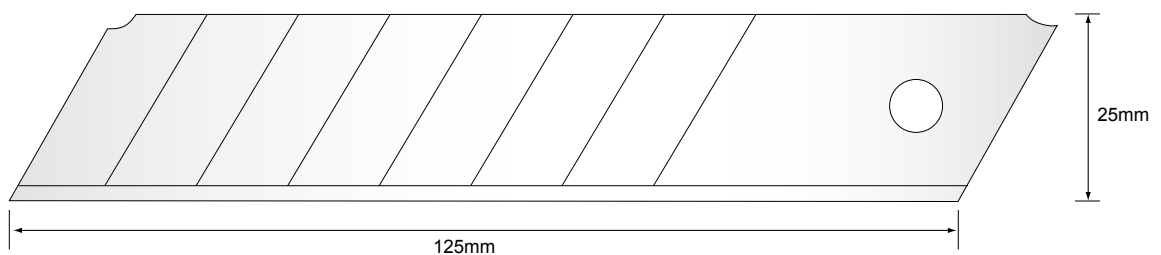
고탄소강소재에 2단연마를 하여 절삭품질이 우수합니다. 고객사가 원하는 브랜드로 OEM방식을 제공합니다.

We use good quality high carbon steel for blades and do grinding 2 times on blades.
 OEM service(buyer' brand) is available.



Extra-large size(특대-特大)

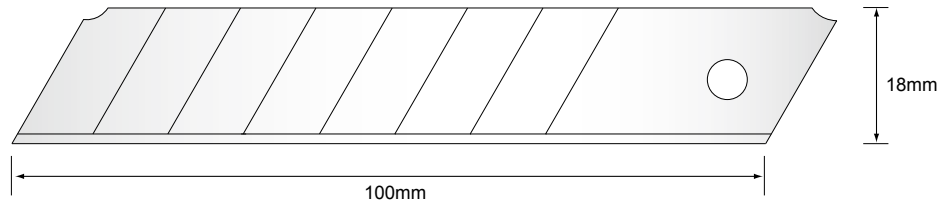
모델명(Model)	두께(Thickness)	색상(Color)	바코드(Barcode No.)
XL-7	0.7mm	White, Black	880 933187 0045



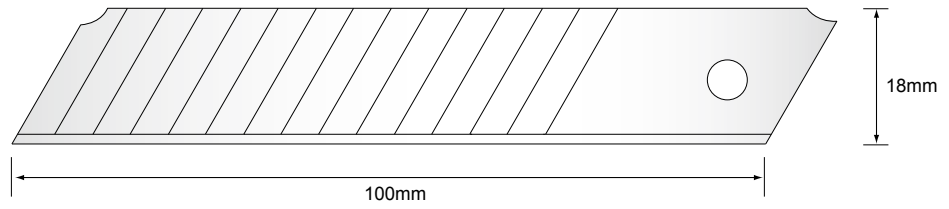
We, Sungil Special Steel Co.,Ltd, have been doing our best to manufacture good harden tempered steel strips with good quality for the best product material.

Large size(대-大)

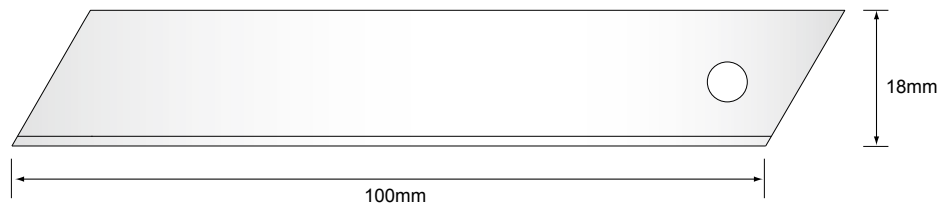
모델명(Model)	두께(Thickness)	색상(Color)	바코드(Barcode No.)
L-7	0.4mm , 0.5mm	White, Black	880 933187 0007



모델명(Model)	두께(Thickness)	색상(Color)	바코드(Barcode No.)
L-14	0.4mm , 0.5mm	White, Black	880 933187 0021

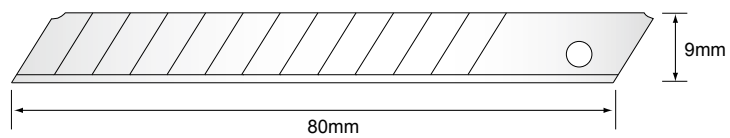


모델명(Model)	두께(Thickness)	색상(Color)	바코드(Barcode No.)
L-0	0.4mm , 0.5mm	White, Black	880 933187 0038



Small size(소-小)

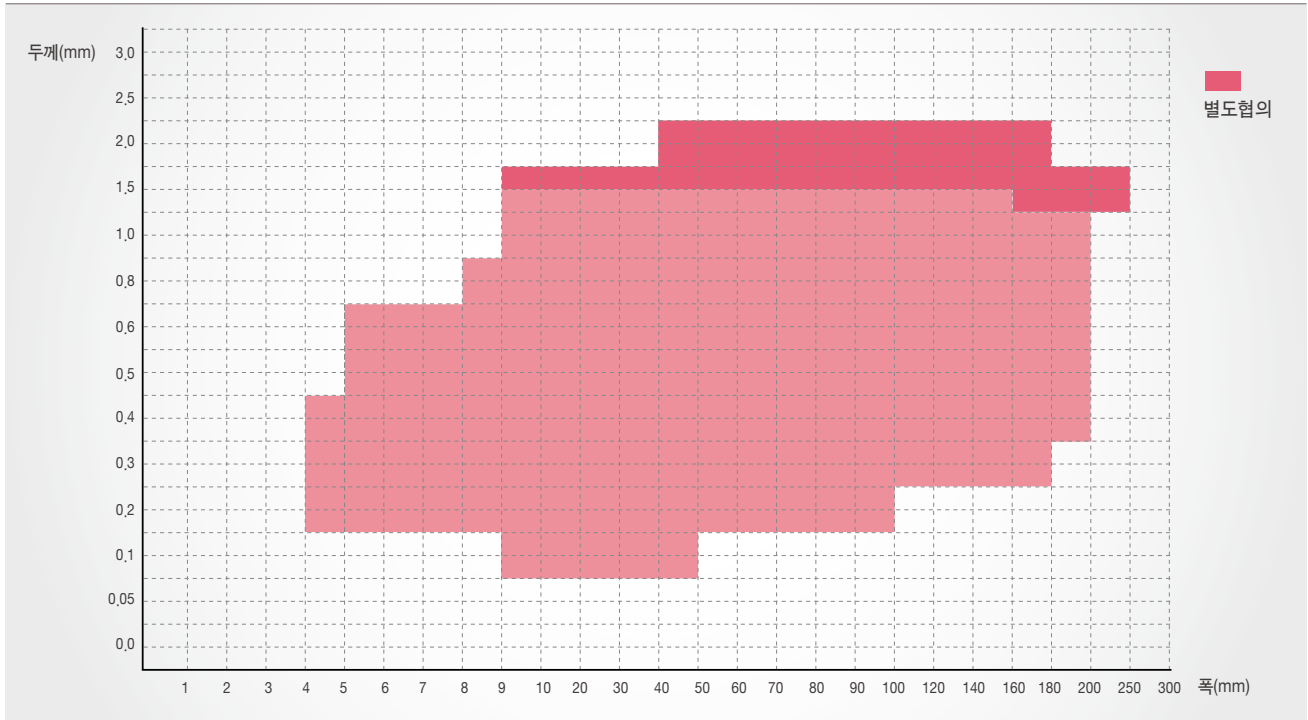
모델명(Model)	두께(Thickness)	색상(Color)	바코드(Barcode No.)
S-7	0.4mm	White, Black	880 933187 0014



Special Steel's Front-runner of Development

SUNG IL SPECIAL STEEL

Available Dimension (열처리생산가공규격)



Chemical Composition (화합성분)

STEEL GRADE	STEEL SYMBOL				CHEMICAL COMPOSITION										
	KS	JIS	DIN	AISI(SAE)	C	Si	Mn	P	S	Cu	Ni	Cr	Ni+Cr	Mo	V
LOW CARBON STEEL	SPCC	SPCC	ST12	A366(1012)	0.12Max	—	0.50Max	0.040Max	0.045Max	—	—	—	—	—	—
	SPCD	SPCD	ST13	A619(1008)	0.10Max	—	0.45Max	0.035Max	0.035Max	—	—	—	—	—	—
	SPCE	SPCE	ST14	A620(1008)	0.08Max	—	0.40Max	0.030Max	0.030Max	—	—	—	—	—	—
HIGH CARBON STEEL	SM30C	S30C	CK30	1030	0.27~0.33	0.15~0.35	0.60~0.90	0.030Max	0.035Max	0.30Max	0.20Max	0.20Max	0.35Max	—	—
	SM35C	S35C	CK35	1035	0.32~0.38	0.15~0.35	0.60~0.90	0.030Max	0.035Max	0.30Max	0.20Max	0.20Max	0.35Max	—	—
	SM45C	S45C	CK45	1045	0.42~0.48	0.15~0.35	0.60~0.90	0.030Max	0.035Max	0.30Max	0.20Max	0.20Max	0.35Max	—	—
	SM50C	S50C	CK50	1050	0.47~0.53	0.15~0.35	0.60~0.90	0.030Max	0.035Max	0.30Max	0.20Max	0.20Max	0.35Max	—	—
	SM55C	S55C	CK55	1055	0.52~0.58	0.15~0.35	0.60~0.90	0.030Max	0.035Max	0.30Max	0.20Max	0.20Max	0.35Max	—	—
	SM60C	S60C	CK60	1060	0.55~0.65	0.15~0.35	0.60~0.90	0.030Max	0.035Max	0.30Max	0.20Max	0.20Max	—	—	—
	SM65C	S65C	CK65	1065	0.60~0.70	0.15~0.35	0.60~0.90	0.030Max	0.035Max	0.30Max	0.20Max	0.20Max	—	—	—
	SM70C	S70C	CK70	1070	0.65~0.75	0.15~0.35	0.60~0.90	0.030Max	0.035Max	0.30Max	0.20Max	0.20Max	—	—	—
	SM75C	S75C	CK75	1075	0.70~0.80	0.15~0.35	0.60~0.90	0.030Max	0.035Max	0.30Max	0.20Max	0.20Max	—	—	—
SM80C	S80C	CK80	1080	0.75~0.85	0.15~0.35	0.60~0.90	0.030Max	0.035Max	0.30Max	0.20Max	0.20Max	—	—	—	
CARBON TOOL STEEL	STC2	SK2	125Cr1	W1-111/2	1.10~1.30	0.35Max	0.50Max	0.030Max	0.030Max	0.25Max	0.25Max	0.20Max	—	—	—
	STC3	SK3		W1-101/2	1.00~1.10	0.35Max	0.50Max	0.030Max	0.030Max	0.25Max	0.25Max	0.20Max	—	—	—
	STC4	SK4		W1,W2-91/2	0.90~1.00	0.35Max	0.50Max	0.030Max	0.030Max	0.25Max	0.25Max	0.20Max	—	—	—
	STC5	SK5		W1,W2-81/2	0.80~0.90	0.35Max	0.50Max	0.030Max	0.030Max	0.25Max	0.25Max	0.20Max	—	—	—
ALLOY TOOL STEEL	STS5	SKS5			0.75~0.85	0.35Max	0.50Max	0.030Max	0.030Max	0.25Max	0.70~1.30	0.20~0.50	—	—	—
	STS51	SKS51		L6	0.75~0.85	0.35Max	0.50Max	0.030Max	0.030Max	0.25Max	1.30~2.00	0.20~0.50	—	—	—
CHORONIUM MOLYBENUM STEEL	SCM420	SCM420			0.27~0.37	0.15~0.35	0.60~0.85	0.030Max	0.030Max	0.30Max	0.25Max	0.90~1.20	—	0.15~0.30	—
	SCM435	SCM435		4135	0.33~0.38	0.15~0.35	0.60~0.85	0.030Max	0.030Max	0.30Max	0.25Max	0.90~1.20	—	0.15~0.30	—
	SCM440	SCM440		4140	0.38~0.43	0.15~0.35	0.60~0.85	0.030Max	0.030Max	0.30Max	0.25Max	0.90~1.20	—	0.15~0.30	—
SPRING STEEL	SPS6	SUP10	50CRV4	6150	0.47~0.55	0.15~0.35	0.65~0.95	0.035Max	0.035Max	0.35Max	—	0.80~1.10	—	—	0.15~0.25

We, Sungil Special Steel Co.,Ltd, have been doing our best to manufacture good harden tempered steel strips with good quality for the best product material.

↳ Hardness Conversion Table (경도환산표)

VICKERS HARDNESS (HV)	BRINELL HARDNESS (HB)		ROCKWELL HARDNESS (HR)				ROCKWELL SUPERFICIAL HARDNESS (HR)			SHORE HARDNESS (HS)	TENSILE STRENGTH
	SCALE	LOAD	A	B	C	D	15N	30N	45N		
BALL	10mm STEEL	10mm CARBIDE	60kgf DIAMOND INDENTER	100kgf 1/16" STEEL	150kgf DIAMOND INDENTER	100kgf DIAMOND INDENTER	15kgf DIAMOND INDENTER	30kgf DIAMOND INDENTER	45kgf DIAMOND INDENTER		
1865			92.1		80	86.5	96.5	92.0	87.0		
1787			91.6		79	85.7	96.3	91.5	86.2		
1710			91.1		78	84.9	96.1	90.9	85.4		
1633			90.6		77	84.2	95.8	90.3	84.5		
1556			90.1		76	93.4	95.5	89.7	83.6		
1478			89.6		75	82.6	95.2	89.1	82.5		
1400			89.0		74	81.8	94.9	88.5	81.6		
1323			88.5		73	81.0	94.6	87.9	80.7		
1245			88.0		72	80.1	94.3	87.2	79.7		
1160			87.1		71	79.4	94.0	86.5	78.7		
1076			86.8		70	78.6	93.7	85.8	77.6		
1004			86.2		69	77.8	93.4	85.1	76.4		
940			85.6		68	76.9	93.2	84.3	75.4		
900			85.0		67	76.1	92.9	83.6	74.2	95.2	
865			84.5		66	75.4	92.5	82.8	73.3	93.1	
832		739	83.9		65	74.5	92.2	81.9	72.0	91	
800		722	83.4		64	73.8	91.8	81.1	71.0	88.9	
772		705	82.8		63	73.0	91.4	80.1	69.9	87	
746		688	82.3		62	72.2	91.1	79.3	66.6	85.2	
720		670	81.8		61	71.5	90.7	78.4	67.7	83.3	
697		654	81.2		60	70.7	90.2	77.5	66.6	81.6	
674		634	80.7		59	69.9	89.8	76.6	65.5	79.9	
653		615	80.1		58	69.2	89.3	75.7	64.3	78.2	
633		595	79.6		57	68.5	88.9	74.8	63.2	75.6	
613		577	79.0		56	67.7	88.3	73.9	62.0	75	
595		560	78.5		55	66.9	87.9	73.0	60.9	73.5	212
577		543	78.0		54	66.1	87.4	72.0	59.8	71.9	205
560		525	77.4		53	65.4	86.9	71.2	58.6	70.4	199
544	500	512	76.8		52	64.6	86.4	70.2	57.4	69	192
528	487	496	76.3		51	63.8	85.9	69.4	56.1	67.6	186
513	475	481	75.9		50	63.1	85.5	68.5	55.0	66.2	179
498	464	469	75.2		49	62.1	85.0	67.6	53.8	64.7	172
484	451	455	74.7		48	61.4	84.5	66.7	52.5	63.4	167
471	442	443	74.1		47	60.8	83.9	65.8	51.4	62.1	161
458	432	432	73.6		46	60.0	83.5	64.8	50.3	60.8	156
446	421	421	73.1		45	59.2	83.0	64.0	49.0	59.6	151
434	409	409	72.5		44	58.5	82.5	63.1	47.8	58.4	146
423	400	400	70.0		43	57.7	82.0	62.2	46.7	57.2	141
412	390	390	71.5		42	56.9	81.5	61.3	45.5	56.1	136
402	381	381	70.9		41	56.2	80.9	60.4	44.3	55	132
392	371	371	70.4		40	55.4	80.4	59.5	43.1	53.9	127
382	362	362	69.9		39	54.6	79.9	58.6	41.9	52.9	124
378	353	353	69.4		38	53.8	79.4	57.7	40.8	51.8	120
363	344	344	68.9		37	53.1	78.8	56.8	39.6	50.7	118
354	336	336	68.4	109	36	52.3	78.3	55.9	38.4	49.7	114
345	327	327	67.9	108.5	35	51.5	77.7	55.0	37.2	48.7	110
336	319	319	67.4	108	34	50.8	77.2	54.2	36.1	47.7	108
327	311	311	66.8	107.5	33	50.0	76.6	53.3	34.9	46.6	105
318	301	301	66.3	107	32	49.2	76.1	52.1	33.7	45.6	102
310	294	294	65.8	106	31	48.4	75.6	51.3	32.5	44.6	100
302	286	286	65.3	105.5	30	47.7	75.0	50.4	31.3	43.6	97
294	279	279	64.7	104.5	29	47.0	74.5	49.5	30.1	42.7	95
286	271	271	64.3	104	28	46.1	73.9	48.6	28.9	41.7	93
279	264	264	63.8	103	27	45.2	73.3	47.7	27.8	40.8	90
272	258	258	63.3	102.5	26	44.6	72.8	46.8	26.7	39.9	88
266	253	253	62.8	101.5	25	43.8	72.2	45.9	25.5	39.2	86
260	247	247	62.4	101	24	43.1	71.6	45.0	24.3	38.4	84
254	243	243	62.0	100	23	42.1	71.0	44.0	23.1	37.7	82
248	237	237	61.5	99	22	41.6	70.5	43.2	22.0	36.9	80
243	231	231	61.0	98.5	21	40.9	69.9	42.3	20.7	36.3	79
238	226	226	60.5	97.8	20	40.1	69.4	41.5	19.6	35.6	77
230	219	219		96.7	18					34.6	75
222	212	212		95.5	16					33.5	72
213	203	203		93.9	14					32.3	69
204	194	194		92.3	12					31.1	66
196	187	187		90.7	10					30	63
188	179	179		89.5	8						61
180	171	171		87.1	6						59
173	165	165		85.5	4						56
166	158	158		83.5	2						54
				81.7	0						53



SUNGIL SPECIAL STEEL CO.,LTD

46-31, Robot land-ro 249beon-gil, Seo-gu, Incheon, Korea
tel. 82-32-446-1683~5 fax. 82-32-446-1686

인천본사: 인천광역시 서구 로봇랜드로 249번길 46-31 tel. 032-446-1683~5 fax. 032-446-1686
군산공장: 전라북도 군산시 오식도동 884-3

www.sungilsteel.co.kr