

JIS G3141

Tensile strength, elongation and non-aging property

Symbol of quality	Tensile strength	Elongation %						Tensile test piece
	N/mm <sup>2</sup>	Discrimination according to nominal thickness mm						
	0.25 or over	0.25 or over to and excl. 0.40	0.40 or over to and excl. 0.60	0.60 or over to and excl. 1.0	1.0 or over to and excl. 1.6	1.6 or over to and excl. 2.5	2.5 or over	
SPCC	(270 min)	(32 min)	(34 min)	(36 min)	(37 min)	(38 min)	(39 min)	No. 5 in rolling direction
SPCD	270 min	34 min	36 min	38 min	39 min	40 min	41 min	
SPCE	270 min	36 min	38 min	40 min	41 min	42 min	43 min	

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Hardness

Temper grade	Symbol of temper grade	Hardness	
		HRB	HV
1/8 hard	8	50 to 71	95 to 130
1/4 hard	4	65 to 80	115 to 150
1/2 hard	2	74 to 89	135 to 185
Full hard	1	85 min	170 min

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Chemical composition, %

Symbol of grade	C	Mn	P	S
SPCC	0.12 max	0.50 max	0.040 max	0.045 max
SPCD	0.10 max	0.45 max	0.035 max	0.035 max
SPCE	0.08 max	0.40 max	0.030 max	0.030 max