

JIS G3131

Chemical composition, %

Symbol of grade	C	Mn	P	S
SPHC	0.15 max	0.60 max _#	0.050 max	0.050 max
SPHD	0.10 max	0.50 max	0.040 max	0.040 max
SPHE	0.10 max	0.50 max	0.030 max	0.035 max

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Mechanical properties

Symbol of grade	Tensile strength N/mm ²	Elongation %						Tensile test piece	Bendability			Test piece
		Thickness 1.2 mm or over to and excl. 1.6 mm	Thickness 1.6 mm or over to and excl. 2.0 mm	Thickness 2.0 mm or over to and excl. 2.5 mm	Thickness 2.5 mm or over to and excl. 3.2 mm	Thickness [#] 3.2 mm or over to and excl. 4.0 mm	Thickness 4.0 mm or over		Bending angle	Inside radius		
										Thickness up to and excl. 3.2 mm	Thickness 3.2 mm or over	
SPHC	270 min.	27 min.	29 min.	29 min.	29 min.	31 min.	31 min.	No. 5, in rolling direction	180°	Flat on itself	Thick- ness × 0.5	No. 3, in rolling directio
SPHD	270 min.	30 min.	32 min.	33 min.	35 min.	37 min.	39 min.		-	-	-	
SPHE	270 min.	31 min.	33 min.	35 min.	37 min.	39 min.	41 min.		-	-	-	