



**JIS G 3131 SPHE steel plate/sheet for stamping and cold forming steels**

JIS G3131 SPHE steel plate/sheet, JIS G3131 SPHE steel plate/sheet, under JIS standard, we can regard SPHE steel plate/sheet as stamping and cold forming steels. JIS G3131 SPHE is mainly used as stamping and cold forming steels.

JIS G3131 SPHE steel plate/sheet is stamping and cold forming steels, which under specification of JIS G3131 standard. The yield strength of SPHE is 270MPa.

Chemical composition, unit% of JIS SPHE steel

Symbol	Chemical composition			
	C max	Mn max	P max	S max
SPHE	0.10	0.50	0.030	0.035

Mechanical properties of JIS SPHE steel

Symbol	Tensile strength N/mm <sup>2</sup> min	Elongation% min						Tensile test piece	Bendability			
		≥1.2 <1.6m m	≥1.6 <2m m	≥2 <2.5m m	≥2.5 <3.2m m	≥3.2 <4mm	≥4m m		Bending angle	Inside Radius		Test piece
										<3.2 mm	≥3.2 mm	
SPHE	270	31	33	35	37	39	41	No.5 in rolling direction	-	-	-	No.3 in rolling direction

JIS G3131 SPHC/SPHD steel plate/sheet, JIS G3131 SPHC/SPHD steel plate/sheet, under JIS standard, we can regard SPHE steel plate/sheet as stamping and cold forming steels. JIS G3131 SPHC/SPHD is mainly used as stamping and cold forming steels.

JIS G3131 SPHC/SPHD steel plate/sheet is stamping and cold forming steels, SPHC, SPHD and SPHE are symbols used in the Japanese Industrial Standards for steel sheets. They are characterized by a minimum tensile strength of 270MPa.

Chemical composition, unit%

Symbol	Chemical composition
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	C max	Mn max	P max	S max
SPHC	0.15	0.60	0.050	0.050
SPHD	0.10	0.50	0.040	0.040

## Mechanical properties

Symbol	Tensile strength N/mm <sup>2</sup> min	Elongation% min						Tensile test piece	Bendability			
		≥1.2 <1.6m m	≥1.6 <2m m	≥2 <2.5m m	≥2.5 <3.2m m	≥3.2 <4mm	≥4m m		Bending angle	Inside Radius		Test piece
										<3.2 mm	≥3.2 mm	
SPHC	270	27	29	29	29	31	31	No.5 in rolling direction	180°	Flat on itself	Thickness x 0.5	No.3 in rolling direction
SPHD	270	30	32	33	35	33	39		-	-	-	

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