



## JIS G3131 SPHC steel work / steel structure / steel machining parts

SPHC steel under standard JIS G3131 is mainly used as stamping and cold forming steels. SPHC steel is the main material for manufacturing SPHC steel work / steel structure / steel machining parts.

### SPHC steel work Chemical composition

Grade	The Element Max (%)				
	C	Si	Mn	P	S
SPHC steel work	≤0.15	≤0.05	≤0.60	≤0.035	≤0.035
	Alt	Cu	Ti		
	≥0.010				

### SPHC steel machining parts Mechanical properties

Annealing hardness HBS	Cold pull hardness HBS	Preheating temperature °C	Quenching temperature °C		Holding time min	Hardening medium	Tempering temperature °C	After tempering hardness ≥HRC
			salt-bath furnace	controlled atmosphere furnace				
235	262	788	1191	1204	5 ~ 15	air	522	60

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						cooling		
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SPHC steel structure Hardness and heat treatment specification

Steel plate/Sheet thickness / mm	$\sigma_b$ MPa	$\sigma_s$ $\geq$ /MPa	$\delta$ Samples from the standard for 50 mm (2 in)	180 ° of cold bending test	
				longitudinal	horizontal
Hot-rolled/Cold rolling: 5 - 150	520	415	16 ~ 18	2a	3.5a

The applicable thickness for SPHC material as defined in the JIS 3131 starts from 1.2 mm to 14 mm. The width of SPHC material ranges to 2000 mm. We can supply many specifications of SPHC steel structure based on the customer's requirement.

SPHC steel structure Delivery condition

AR(As Hot Rolled), N(Normalized), T(Tempered), Q(Quenched), TMCP,  
Q+T(Quenched and Tempered), UT(Ultrasonic Test: ASTM A435, ASTM A578-C/B/A,  
EN10160-S0E1, S1E2, S2E3, S3E4), Impact Test, PWHT(Post Weld Heat  
Treatment), HIC, Z Test(Z15, Z25, Z35)

SPHC steel structure is usually used in automotive manufacturing, electric products, vehicles, aviation. For more information about SPHC steel structure or you want to find a SPHC steel structure exporter , please contact us!



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