

Sheet Metal Materials

Sheet Metal Materials for Your Custom Metal Parts

See the table below for an introduction to the commonly used sheet metals materials

MATERIAL	SURFACE FINISH					YIELD (MPA)	TENSILE (MPA)	HARDNESS	GB STANDARD	SHEET METAL	CNC TURNING
	Powder coating	E-Coating	Zinc plating	Anodized	Passivation						
Cold Rolled Steel (CRS)											
↳ SPCC	✓	✓	✓			≥210	≥350	HB 65 - 80	JIS G3141-2009	✓	
↳ SAPH440	✓	✓	✓			≥305	≥440	HB 80 ±30	Q/BQB 310-2009	✓	
↳ Hot Rolled Steel											
↳ #20	✓	✓	✓			≥245	≥410	≥143	GB/20CrNiMo		✓
↳ Q235	✓	✓	✓			≥235	375 - 500	HB 120 ±40	GB/T 700-2006	✓	✓
↳ Q345	✓	✓	✓			≥345	490 - 675	HB 120 ±40	GB/T 1591-2008	✓	✓
Spring Steel											
↳ 65Mn	✓	✓				≥785	≥980	HB 190 - 340	GT/T 1222-2007	✓	
Aluminum											
↳ AL1060	✓			✓		≥35	≥75	HB 26 ±5	GB/T 3190-2008	✓	
↳ AL5052 H32	✓			✓		≥70	210 - 260	HV 11 ±2	GB/T 3190-2008	✓	
↳ AL6061 T6	✓			✓		≥276	≥260	HV 15 - 18	GB/T 3190-2008	✓	✓
↳ AL6063 T5	✓			✓		≥170	≥250	HB 25 ±5	GB/T 3190-2008	✓	
↳ AL7075 T6	✓			✓		≥503	≥572	HB 150 ±5	GB/T3880-2017		✓
Stainless Steel											
↳ SS301	✓				✓	≥205	≥520	HB 76 - 187	GB/T 8170-2008	✓	
↳ SS304	✓				✓	≥205	≥520	HB 76 - 187	GB/T 24511-2009	✓	✓

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	Powder coating	E-Coating	Zinc plating	Anodized	Passivation						
↳ SS316	✓				✓	≥205	≥520	HB 76 – 187	GB/T 24511-2009	✓	✓
Cold Galvanized Steel											
↳ SGCC	✓					≥200	≥380	HB 50 – 65	JIS-G3302	✓	

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