

Specific strength for various sheet metals

Sheet	Tensile strength	Specific gravity	Strength-to- specific gravity ratio
Ultra high strength steel	980 - 1470MPa	7.8	126 - 188MPa
High strength steel	490- 790MPa	7.8	63-101MPa
Mild steel SPCC	340MPa	7.8	44MPa
Aluminium alloy A6061(T6)	310MPa	2.7	115MPa



- 1) Ultra high strength steel sheets
- 2) Resistance heating
- 3) Warm and hot stamping
- 4) Quenching in hot stamping
- 5) Prevention of oxidation in hot stamping using oxidation preventive oil
- 6) Warm and hot shearing
- 7) Warm and hot spline forming



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