sij | ravne steel

STRUCTURAL STEELS

QUALITY

RS 025

→ W.NR.:	1.7225 (EN ISO 4957)
→ EN / DIN:	42CrMo4
→ AISI:	4142

→ CHEMICAL COMPOSITION (W%)

C	Si	Mn	Cr	Mo	Ni
0.41	0.20	0.75	1.05	0.23	-

→ DELIVERY CONDITION:	quenched and tempered at 750-1300 N/mm² depending on the diameter of the bar ≤ Φ16mm 1100-1300 N/mm² ≥ Φ17≤40 mm 1000-1200 N/mm² ≥ Φ41≤100 mm 900-1100 N/mm² ≥ Φ101≤160 mm 800-950 N/mm² ≥ Φ161≤250mm 750-900 N/mm²
→ PROCESS:	conventional

→ HEAT TREATMENT

soft annealing	cooling	hardness (HB)
680-720 °C	furnace	<241
hardening	**quenching**	**hardness (HRC)**
820-860 °C	oil, water	

→ PROPERTIES

Cr, Mo and Mn low-alloy steel known for its good toughness and torsional strength. The steel has good machining properties.

→ APPLICATION

Parts which require greater toughness in the automotive and aerospace industries, such as; drive shafts, axles, connecting rods, crankshafts, pins, bolts, etc.

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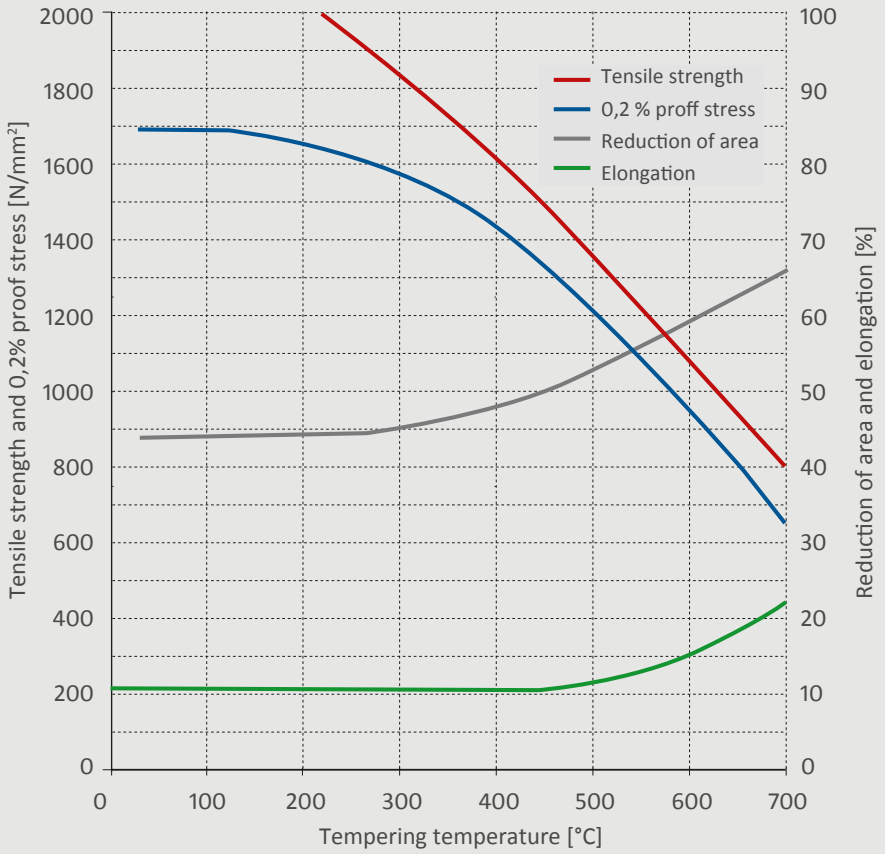

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