

→ 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/mm<sup>2</sup> depending on the diameter of the bar

≤ Φ16mm	1100-1300 N/mm <sup>2</sup>
≥ Φ17≤40 mm	1000-1200 N/mm <sup>2</sup>
≥ Φ41≤100 mm	900-1100 N/mm <sup>2</sup>
≥ Φ101≤160 mm	800-950 N/mm <sup>2</sup>
≥ Φ161≤250mm	750-900 N/mm <sup>2</sup>

### → PROCESS:

conventional

### → HEAT TREATMENT

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

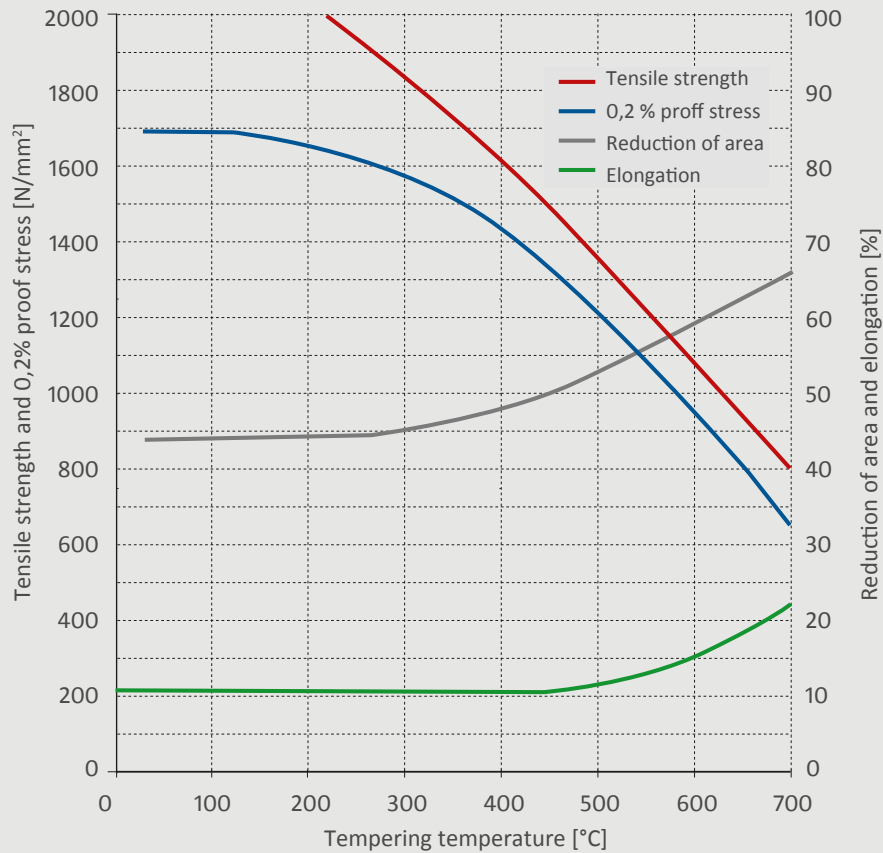
### → PROPERTIES

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

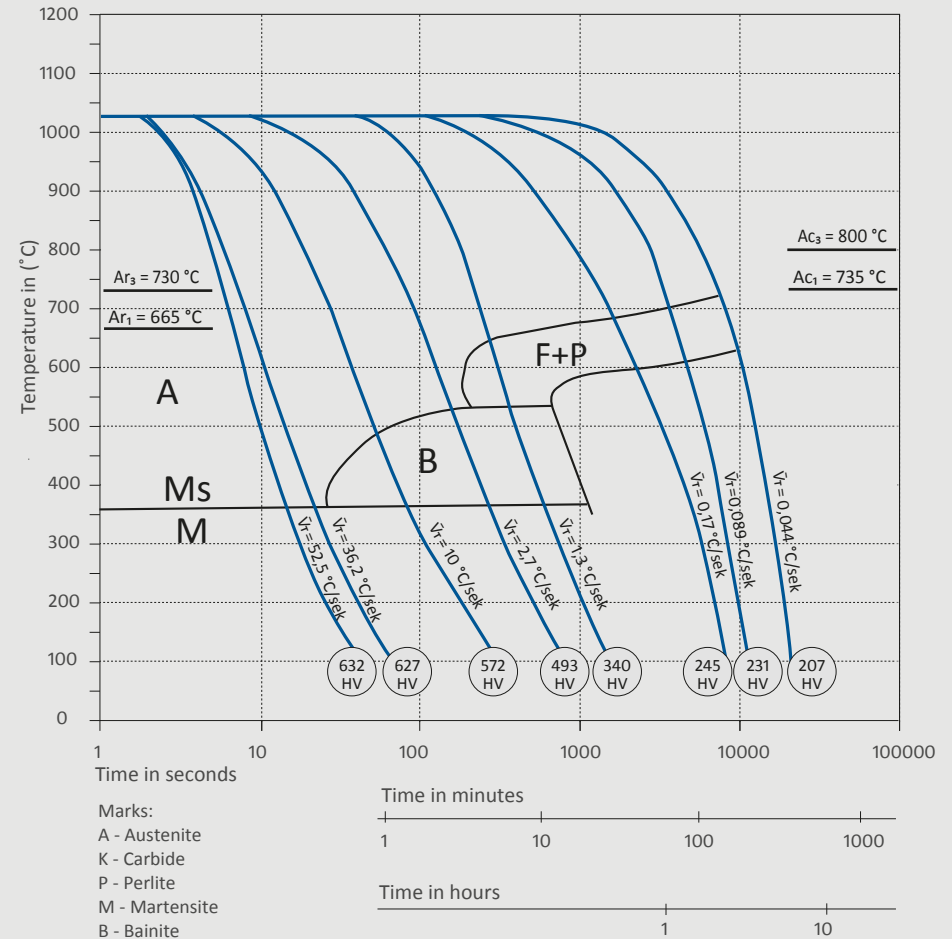
### → APPLICATION

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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cct



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