

→ W.NR.: 1.2343 Mod.

→ EN / DIN: X37CrMoV5-1 Mod.

→ AISI: H11 Mod.

→ CHEMICAL COMPOSITION (W%)

C	Si	Mn	Cr	Mo	V
0.36	0.20	0.30	5.00	1.35	0.45

→ DELIVERY CONDITION: soft annealed with a hardness of <209 HB

→ PROCESS: electro slag remelted - ESR

→ HEAT TREATMENT

soft annealing	cooling	hardness (HB)
800-850 °C	furnace	<209
hardening	quenching	hardness (HRC)
1000-1020° C,	air, oil, nitrogen overpressure	50-54

→ PROPERTIES

High tempering resistance and especially high toughness in hot applications - greater than that of RS 400. For the general processing of light alloys and plastics. Everywhere where leading cracks may appear due to the complexity of dies. Appropriate for tools of small cross-sections. Can be nitrated.

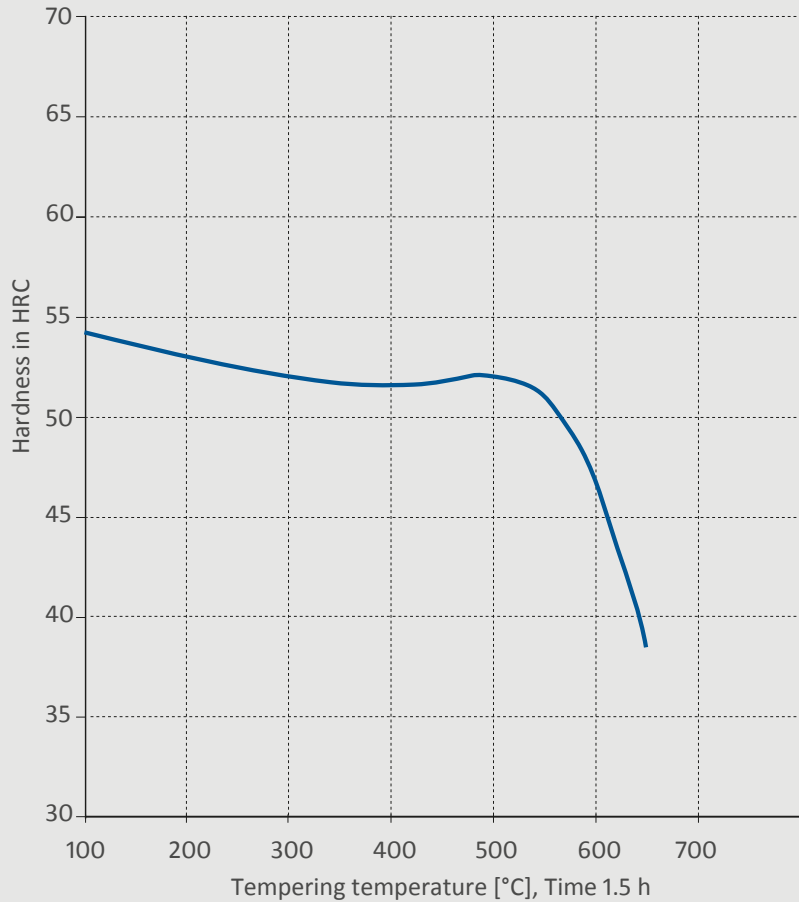
→ APPLICATION

RS 440 RAVNEX is primarily designed for die casting of light metals and alloys. It is often used for highly stressed hot-work structural parts where superior toughness is required ,(up to average Charpy V-notch value of 29.8 Joule at 44-46 HRC according to NADCA#207). RS 440 RAVNEX is also recommended for die forging and extrusion. Because of its good polishability, the grade can be used for plastic molding applications and processing of glass.

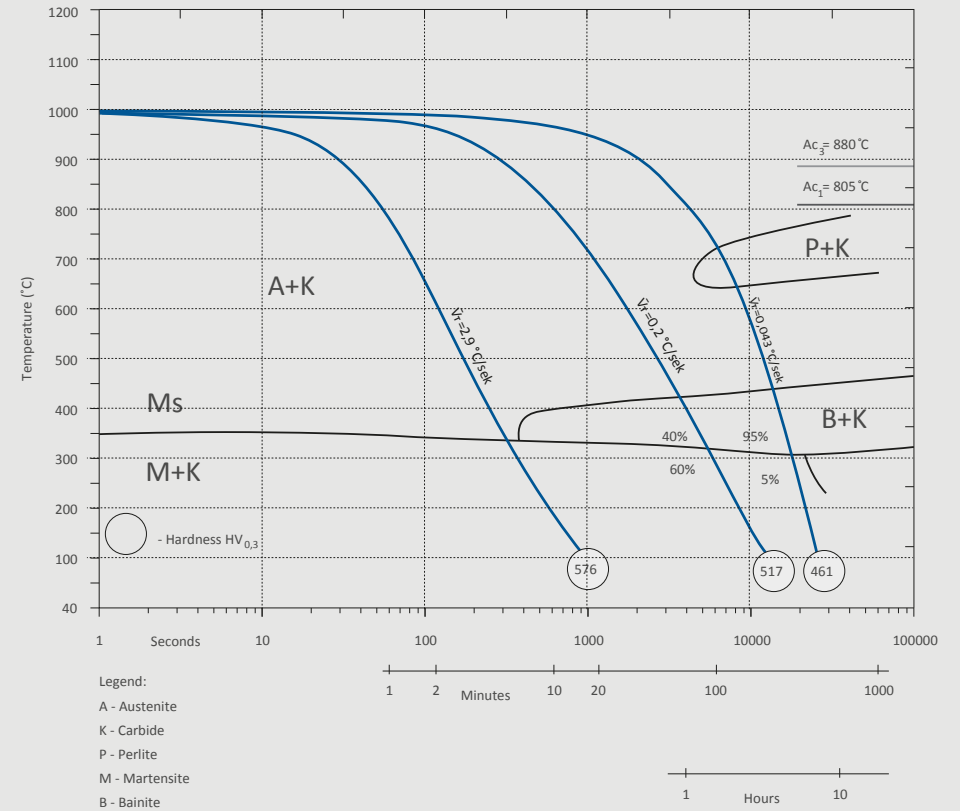
→ ULTRASOUND EXAMINATION

EN 10228-3 art.2-4

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DISCLAIMER

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