

→ W.NR.:	/
→ EN / DIN:	/
→ AISI:	/

### → CHEMICAL COMPOSITION (W%)

C	Si	Mn	Cr	Mo	V	Ni
0.37	0.25	0.43	4.90	1.60	0.59	1.60

→ DELIVERY CONDITION: soft annealed with a hardness of <235 HB

→ PROCESS: electro slag remelted - ESR

### → HEAT TREATMENT

soft annealing	cooling	hardness (HB)
800-850 °C	furnace	<235
hardening	quenching	hardness (HRC)
1030-1050° C, resistance of 30 minutes	air, oil, nitrogen overpressure	56-58

### → PROPERTIES

An extremely clean steel with a high toughness, ductility and tempering resistance. Greater impact strength than RS 440 RAVNEX steel. Good polishability. Abrasion resistance in hot applications is between that of RS 433 and RS 420. After heat treatment the cross section of this steel shows extremely uniform mechanical properties. Due to its excellent hardenability it is very suitable for large-sized tools.

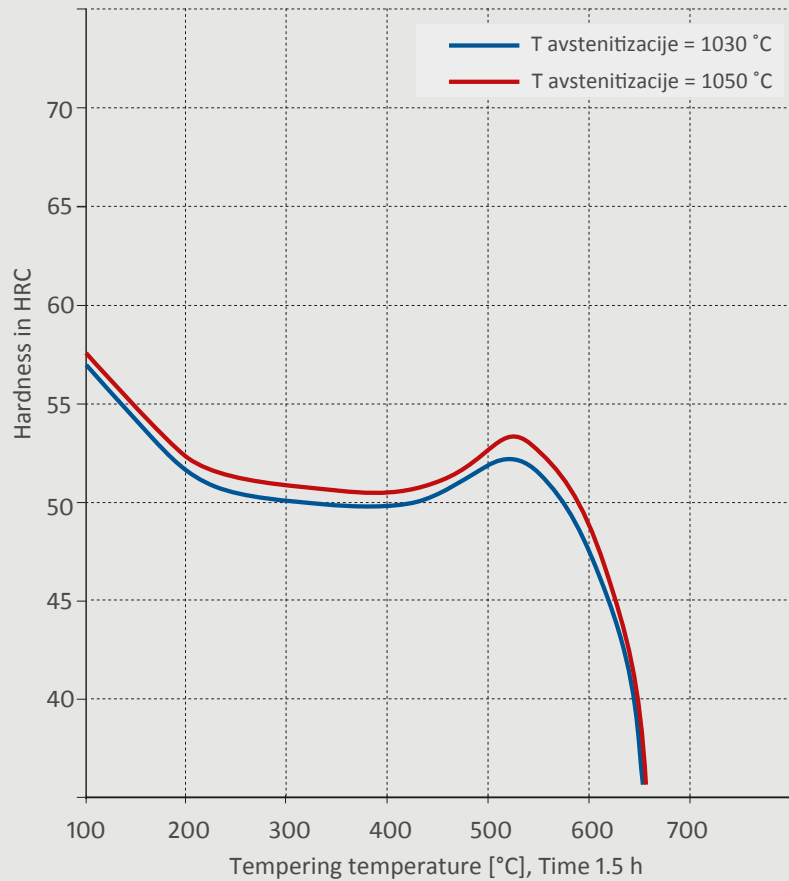
### → APPLICATION

For heavily loaded, large-sized tools and inserts for the die casting of aluminium and other light metals and alloys. Appropriate for tools for the forging (including inserts) and the extrusion of light metals (matrices, bolts). For larger batches where the tempering resistance is of utmost importance. Good polishing ability for the formation of plastics. Usual working hardness of between 44 and 48 HRC.

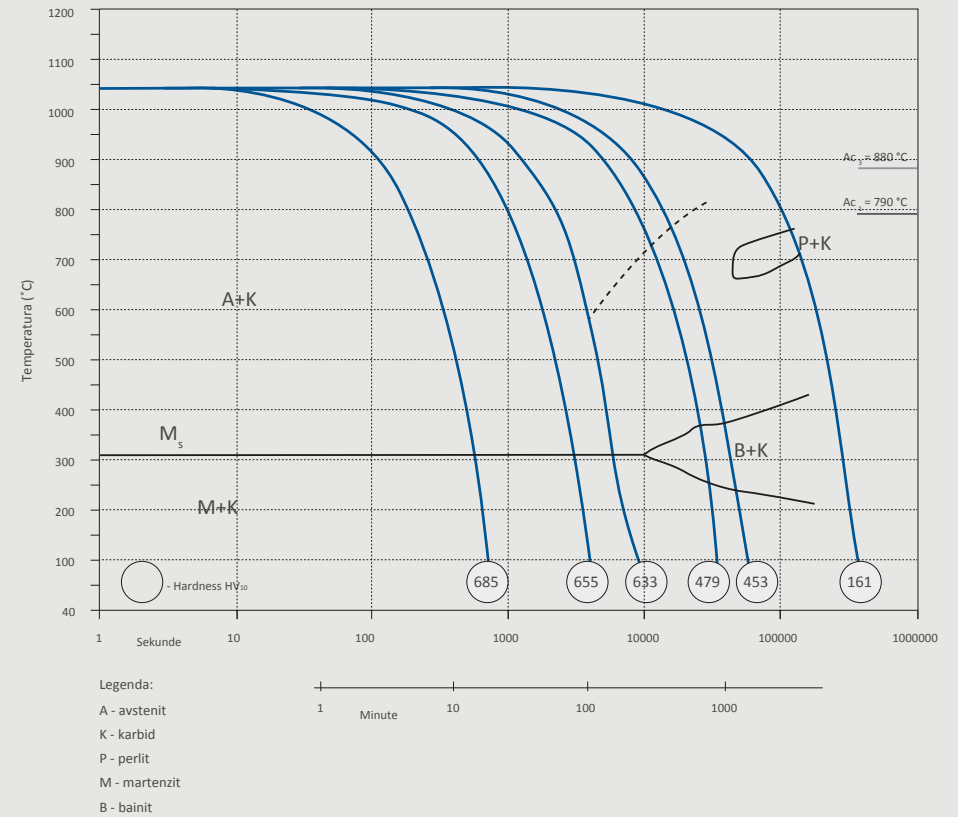
### → ULTRASOUND EXAMINATION

EN 10228-3 art.2-4

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