

→ W.NR.:	1.2344 ESR (EN ISO 4957)
→ EN / DIN:	X40CrMoV5-1
→ AISI:	H13

→ CHEMICAL COMPOSITION (W%)

C	Si	Mn	Cr	Mo	V
0.40	1.05	0.40	5.15	1.35	1.00

→ DELIVERY CONDITION: soft annealed with a hardness of <229 HB

→ PROCESS: electro slag remelted - ESR

→ HEAT TREATMENT

soft annealing	cooling	hardness (HB)
760-810 °C	furnace	<229
hardening	quenching	hardness (HRC)
1020-1060 °C	air, oil, warm bath 450-550 °C	52-56

→ PROPERTIES

High tempering resistance, important in the prevention of thermal fatigue, high hardness and toughness in hot applications. High abrasion resistance in hot applications - greater than that of RS 400. For the general processing of light alloys. Can be polished. Water-cooling during operation may also be used. It can be nitrated.

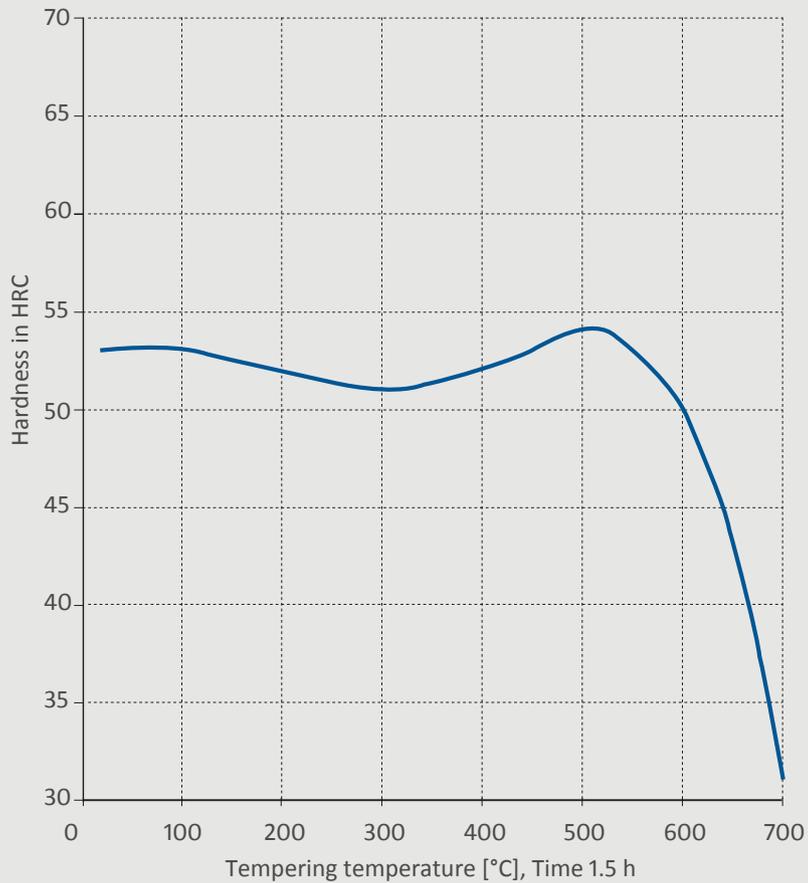
→ APPLICATION

Tools for the hot pressing of light metals. Tools for forging machines (matrices, pins). Tools, inserts and cores for the die casting of aluminium, magnesium and zinc. For load-bearing components in the extrusion of aluminium (dies). Components for the extrusion of copper and steel (pistons, pins). Various punches and blades for hot cutting. Tools for the manufacture of screws. Mainly as wear-resistant tools for hot applications, as well as for the plastics processing. Usual working hardness of between 46 and 50 HRC.

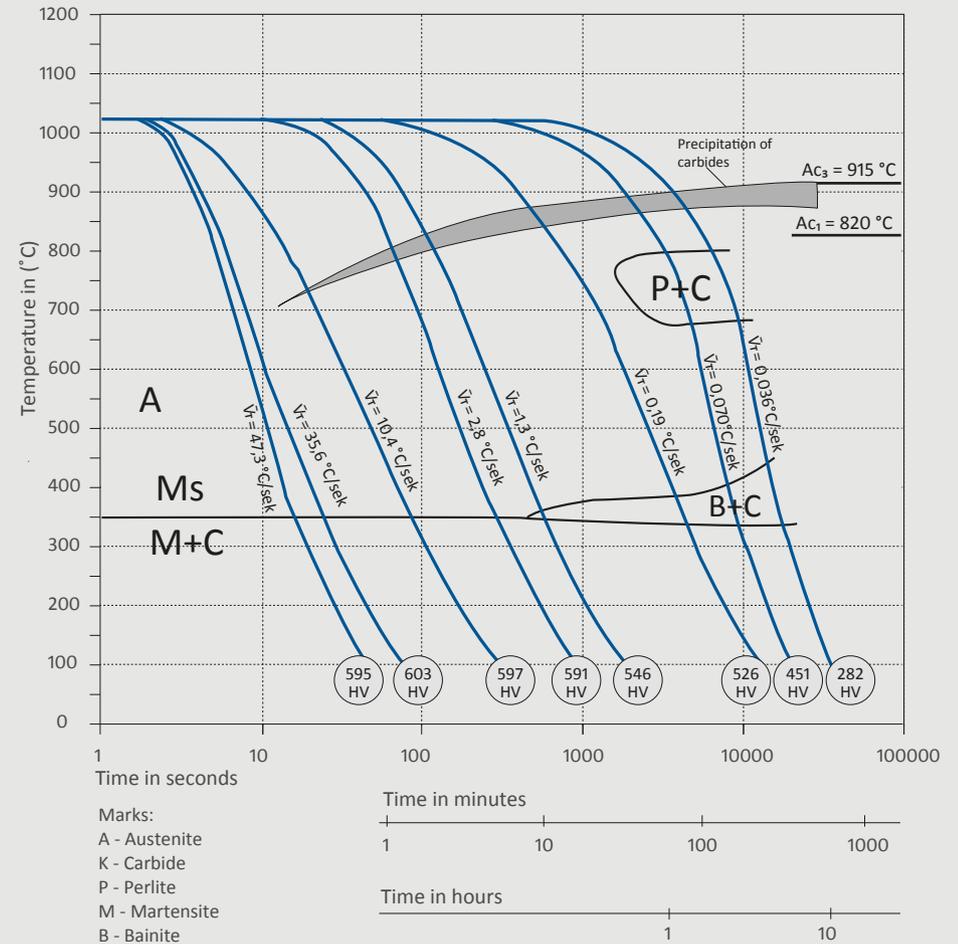
→ ULTRASOUND EXAMINATION

EN 10228-3 art.2-4

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