

→ W.NR.:	1.2344 EFS (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: conventional, Extra fine structure - EFS

### → HEAT TREATMENT

<b>soft annealing</b>	<b>cooling</b>	<b>hardness (HB)</b>
760-810 °C	furnace	<229
<b>hardening</b>	<b>quenching</b>	<b>hardness (HRC)</b>
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 401. For the general processing of light alloys. Can be polished. Water-cooling during operation may also be used. It can be nitrated.

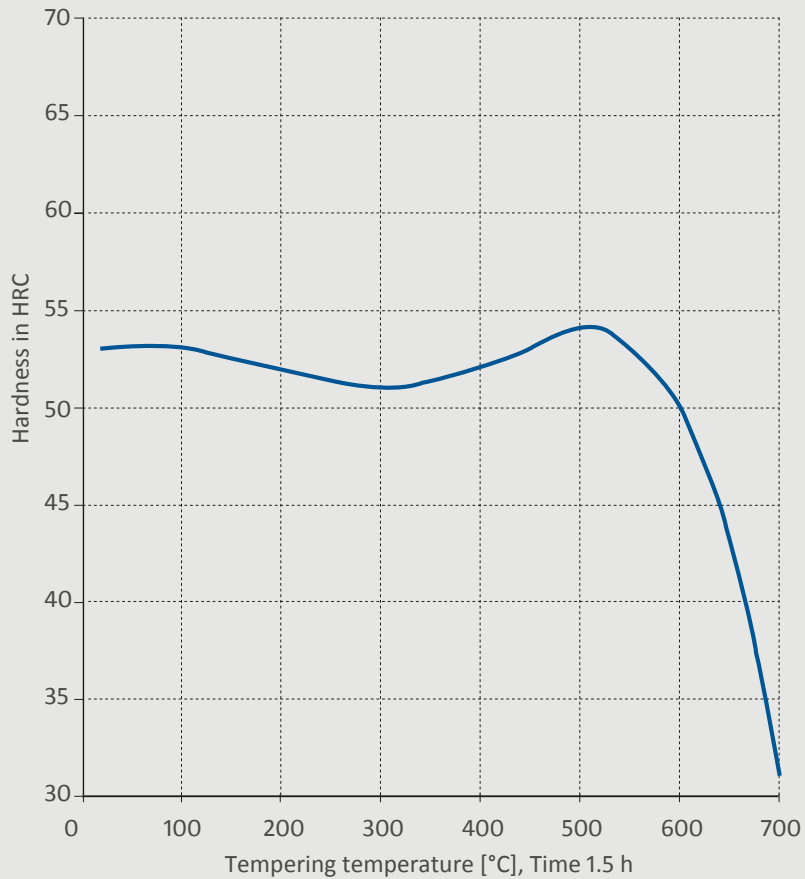
### → APPLICATION

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. Mainly as wear-resistant tools for hot applications, as well as for the plastics processing. Usual working hardness of between 46 and 50 HRC.

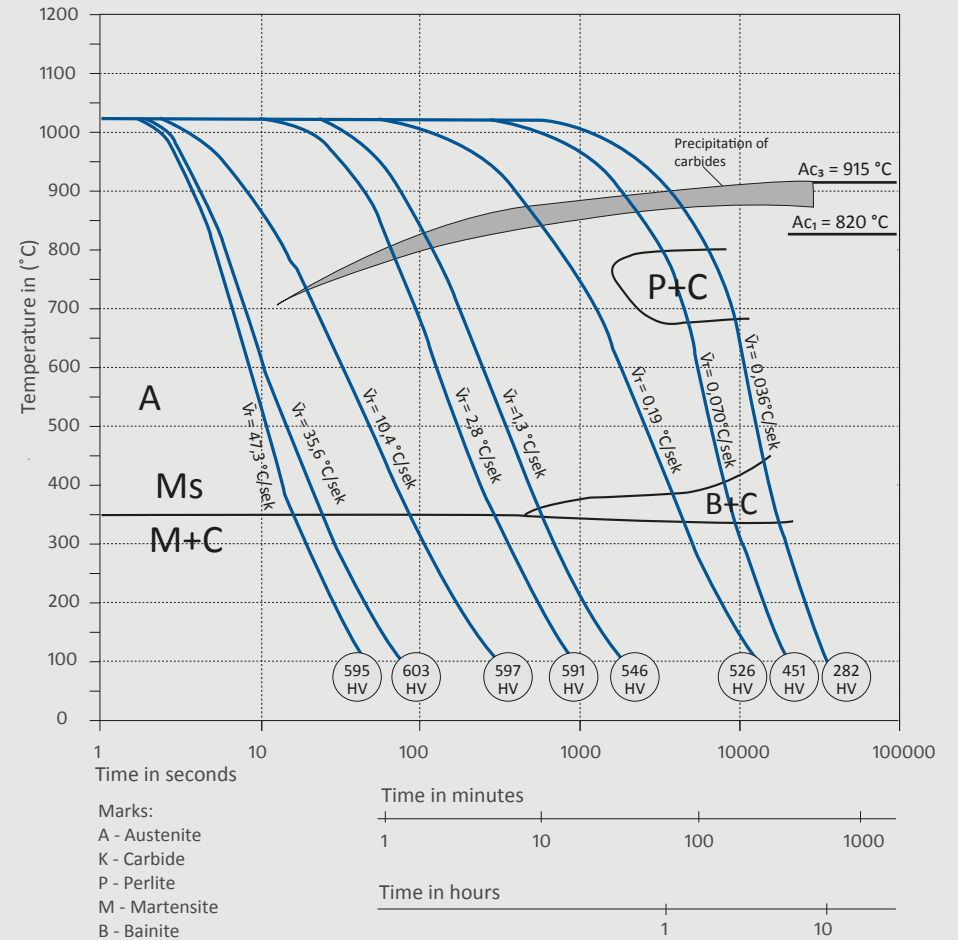
### → ULTRASOUND EXAMINATION

EN 10228-3 art.2-4

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