Rapidur	3247						
HS2-9-1-8	C 1.08 Cr 4.10	Mo 9.50 V	1.20 W	/ 1.50 Co 8.0	00		
Steel properties	High-carbon, high-speed steel based on molybdenum. Characterized by high wear resistance, red hardness and toughness. As a result of its low vanadium content, this grade exhibits good grindability.						
Standards	AISI M42		AFNOR Z110DKCWV				
Applications	For tools subject to severe mechanical wear (e.g. in case of small cross-section cuts at high cutting speeds). Particularly suitable for die-sinking cutters, milling cutters and engraving machines including gravers as well as for tool bits in automatic lathes. Also suitable for non-cutting shaping (e.g. cold extrusion rams and tools employed in machining materials for the aviation industry such as titanium alloys).						
Heat treatment	Soft annealing °C 820 – 860		Cooling Furnace		Hardness HB max. 277		
	Stress-relief annealing °CCoolir630 – 650Furnad						
	1st pre-heating °C up to approx. 400	2nd and 3rd	а ц.		0		
	pre-heating °C	pre-heating		ardening	Quenching	Tempering °C	Hardness after tempering HRC

¹ For cold-forming tools with a complex geometry, a hardening temperature at the lower end of the quoted range is recommended. The stated hardening temperatures apply to saltbath hardening only. For vacuum hardening, we suggest a reduction of 10 °C to 30 °C.