

全球钢号百科!

Global Steel Grade Encyclopedia



涵盖的行业或国家与地区类别















瑞典标准







UNS UNI ASME



Rapidur

3243

HS6-5-2-5

C 0.92 **Cr** 4.10 **Mo** 5.00 **V** 1.90 **W** 6.40 **Co** 4.80

Steel properties

The cobalt content in this high-performance high-speed steel results in high red hardness and tempering resistance. As a consequence, this grade is particularly suitable for conditions involving thermal stresses and discontinuous cutting. Under the name Rapidur 3245, AISI M 35 + S and material number 1.3245, this steel grade is supplied with a higher sulphur content (S = 0.10 %).

Standards

AISI M35

AFNOR Z85WDKCV06-05-05-04-02

Applications

Heavy-duty milling cutters of all kinds, highly stressed twist drills and taps, profile knives, machining of high-strength materials, broaches.

Heat treatment

Soft annealing °C820 – 860

Cooling
Furnace

Mardness HB
max. 269

Stress-relief annealing °C Cooling 630 – 650 Furnace

1st pre-heating °C	2nd and 3rd pre-heating °C	Hardening ¹ °C	Quenching	Tempering °C	Hardness after tempering HRC
up to approx. 400 in an air-circulating					
furnace	a) 850	1190 – 1230	550 °C three ti	at least three times	64 – 67
	b) 850 and 1050			540 – 570	

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.

