



钢铁之家

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全球钢号百科!

Global Steel Grade Encyclopedia



涵盖的行业或国家与地区类别



国际材料与试验协会

GJB

国家军用标准



动力机械工程师协会

EU

前欧洲标准化

AISI

美国钢铁学会



德国工业标准

AMS

航空航天材料规范



国际标准

JASO

日本汽车标准组织

EN

欧洲标准

JB

中国机械行业标准

UNS

统一编号系统

UNI

意大利标准



美国机械工程师协会

SS

瑞典标准



国家标准



日本工业标准

Rapidur 3344

HS6-5-3

C 1,22 Cr 4,10 Mo 5,00 V 2,90 W 6,40

Steel properties Very similar composition to Rapidur 3343, but with substantially higher V and C content, resulting in combined maximum wear resistance and cutting edge retention with good toughness.

Standards AISI M3 Typ 2

AFNOR Z120WDCV06-05-04-03

Applications Taps, reamers, heavy-duty milling cutters, dies, rotary gear shaping and shaving cutters for the processing of hard materials, hexagon socket punches and piercing dies for the nut production.

Heat treatment **Soft annealing °C**
820 – 860

Cooling
Furnace

Hardness HB
max. 269

Stress-relief annealing °C
630 – 650

Cooling
Furnace

1st pre-heating °C
up to approx. 400
in an air-circulating
furnace

2nd and 3rd pre-heating °C

- a) 850
- b) 850 and 1050

Hardening¹ °C
1190 – 1230

Quenching
a) Saltbath,
550 °C
b) Oil
c) Air

Tempering °C
at least
three times
540 – 570

Hardness after tempering HRC
64 – 66

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.

