meusburger

MATERIAL NO.: 1.3343 (HSS)

DESIGNATION:

DIN:	HS 6-5-2 C
AFNOR:	Z 85 WDCV 6
UNI:	X 82 WMoV 6 5
AISI:	M 2 reg. C

TECHNICAL TIP:

» Due to the high tempering resistance, excellent for PVD and PACVD coating.

INDICATORY ANALYSIS:

C	0.9
Si	0.3
Mn	0.3
Cr	4.0
Mo	5.0
V	1.9
W	6.2

STRENGTH: max. 269 HB (≈ max. 915 N/mm²)

THERMAL CONDUCTIVITY AT 100 °C: 27.4 $\frac{W}{m\,K}$

COEFFICIENT OF THERMAL EXPANSION [10^{-6}/K]

100° C	200 °C	300 °C	400 °C	500 °C	600 °C	700 °C
10.8	11.8	12.0	12.5			

CHARACTER:

» ***High-speed steel*** *featuring high resistance to adhesive and abrasive wear in combination with high toughness and compressive strength*

APPLICATION:

» *Blocks for eroding, cold forming tools such as cutting, fine blanking and impact extrusion punches and dies, inserts with a very high wear resistance*

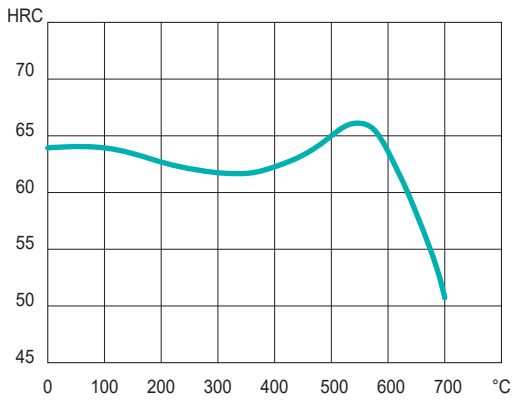
TREATMENT BY:

» *Polishing:*
suitable
» *Nitriding:*
highly suitable
» *EDM:*
highly suitable
» *Coating:*
highly suitable

HEAT TREATMENT:

» *Soft annealing:*
820 to 850 °C, about 2 to 5 hours
slow controlled cooling inside the furnace of 10 to 20 °C per hour to about 550 °C; then further cooling in air, ***max. 270 HB***
» *Hardening:*
1190- 1230 °C
quenching in oil/compressed gas/air/hot bath
obtainable hardness: ***66 HRC***
» *Tempering:*
slow heating to tempering temperature (to avoid forming of cracks) immediately after hardening;
triple tempering is recommended

TEMPERING CHART:



Meusburger Georg GmbH & Co KG | Kesselstr. 42 | 6960 Wolfurt | Austria
T +43 5574 6706-0 | sales@meusburger.com | www.meusburger.com