

Acciaio per utensili per lavorazioni a freddo • DIN 17350

CORRISPONDENZE

UNI	AFNOR	DIN-W.Nr.	BS	AISI-SAE
115CrV2	100C3	1.2210	1407	L2

COMPOSIZIONE CHIMICA INDICATIVA

Elemento	C	Mn	Si	Cr	Ni	Mo	V
Range [%]	1.20 – 1.35	0.20 – 0.40	0.15 – 0.30	0.50 – 0.90	-	-	0.07 – 0.12

LAVORAZIONE A CALDO E TRATTAMENTO TERMICO

Punti critici: Ac1 735°C Ac3 765 °C, Ms 240 °C.

Operazione	Fucinatura	Normalizzazione	Ricottura subcritica	Ricottura sferoidale	Tempra	Rinvenimento
T [°C]	850 - 1100	-	710 - 750	-	810 - 840	180 - 250

CARATTERISTICHE MECCANICHE

Rinvenimento a °C	100	200	300	400	500	600
HB	722	688	595	496	409	336
HRC	64	62	57	51	44	36
R [N/mm²]	-	-	2240	1820	1430	1110

IMPIEGHI

Utilizzato principalmente per la produzione di utensili da taglio, punte da trapano, perni e stampi.

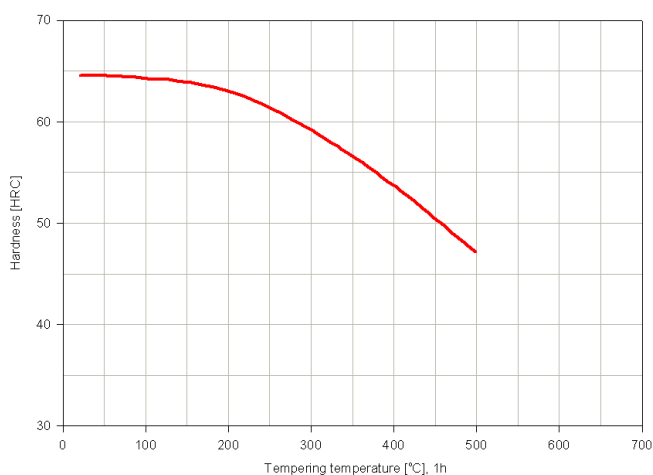
DIAGRAMMA DI RINVENIMENTO

Note operative:

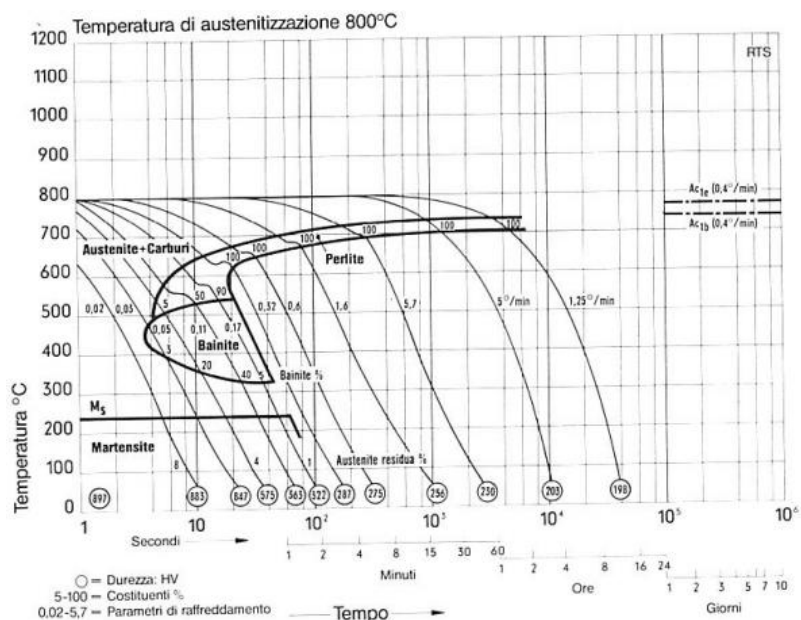
Diametro: 11 mm.

Tempra: 850 °C in olio.

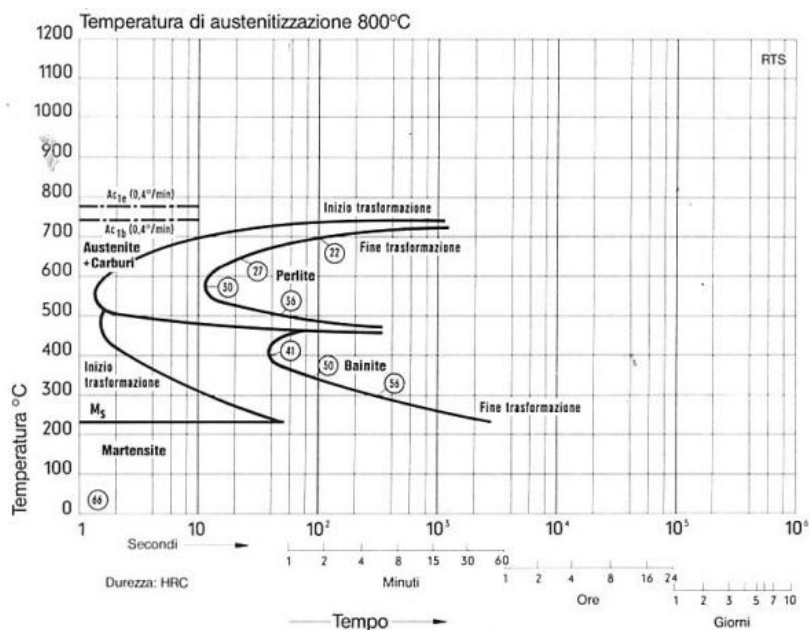
Rinvenimento per due ore.



CURVA CCT



CURVA TTT



Cold work tool steel • DIN 17350

REFERENCES

UNI	AFNOR	DIN-W.Nr.	BS	AISI-SAE
115CrV2	100C3	1.2210	1407	L2

CHEMICAL COMPOSITION

Element	C	Mn	Si	Cr	Ni	Mo	S
Range [%]	1.20 – 1.35	0.20 – 0.40	0.15 – 0.30	0.50 – 0.90	-	-	0.07 – 0.12

HOT WORKING AND HEAT TREATMENT

Critical points: Ac1 735°C Ac3 765 °C, Ms 240 °C.

Operation	Forging	Normalizing	Subcritical annealing	Spheroidal annealing	Quenching	Tempering
T [°C]	1100 - 850	-	710 - 750	-	810 - 840	180 - 250

MECHANICAL PROPERTIES

Tempering °C	100	200	300	400	500	600
HB	722	688	595	496	409	336
HRC	64	62	57	51	44	36
R [N/mm ²]	-	-	2240	1820	1430	1110

USES

Mainly used for the production of cutting tools, drill bits, pins and molds.

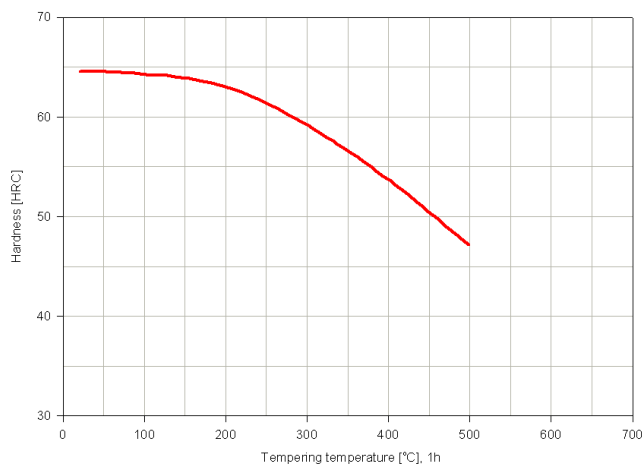
TEMPERING DIAGRAM

Operative notes:

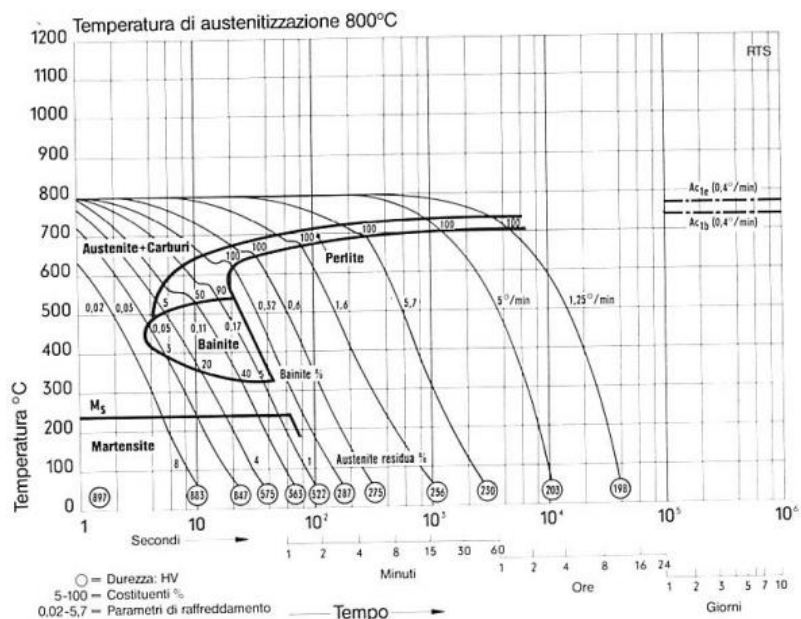
Diameter: 11 mm.

Quenching: 850 °C in oil.

Tempering for two hours.



CCT TREND



TTT TREND

