



SIHARD 2208 Steel

Designation by Standards

Brand Name	Ravne	Mat. No.	DIN	EN	AISI/SAE
SIHARD 2208	31CRV3	1.2208	31CrV3	-	-

Chemical Composition (in weight %)

C	Si	Mn	Cr	Mo	Ni	V	W	Others
0.31	0.33	0.50	0.55	-	-	0.10	-	-

Description

Cold work tool steel.

Applications

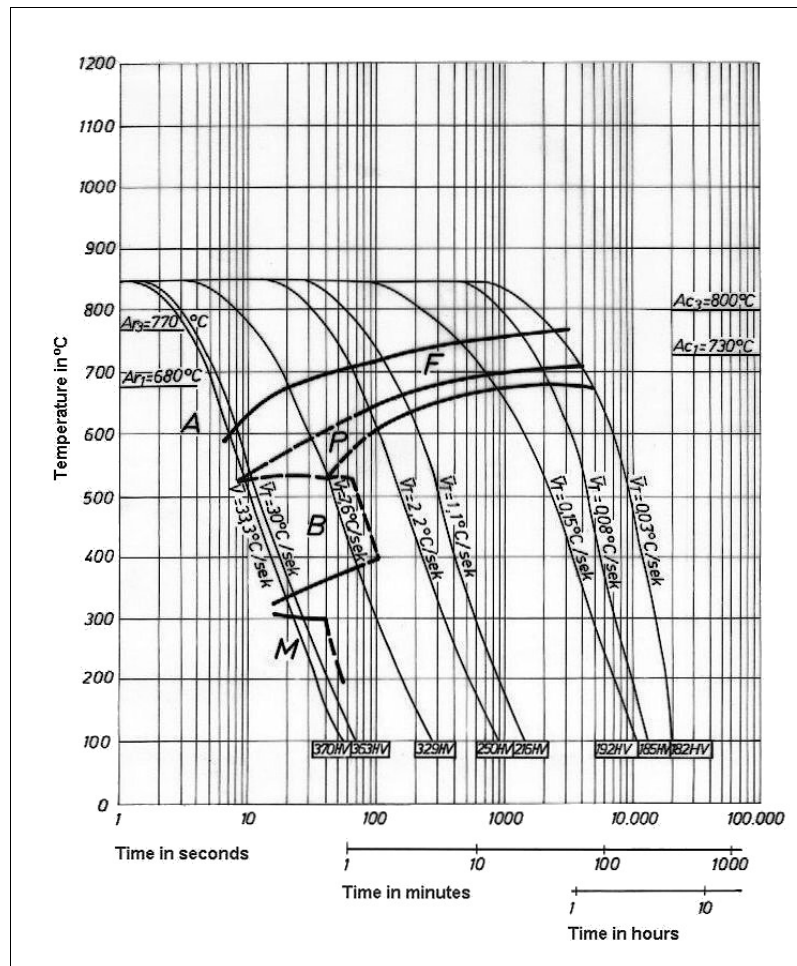
Steel used for water hardened machine spanners, screw spanners, screwdrivers.

Physical properties (average values) at ambient temperature

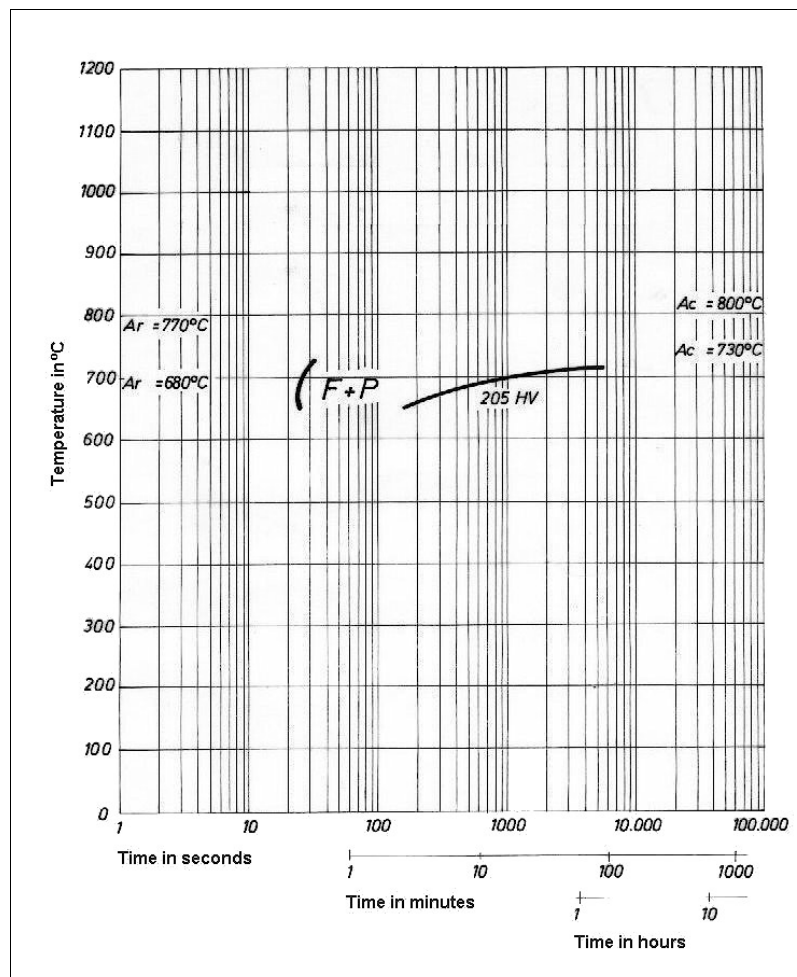
Modulus of elasticity [$10^3 \times \text{N/mm}^2$]: 210

Density [g/cm^3]: 7.85

Continuous Cooling Transformation (CCT) Diagram



Time-Temperature Transformation (TTT) Diagram



Soft Annealing

Heat to 680-720°C, cool slowly. This will produce a maximum Brinell hardness of 220.

Hardening

Harden from a temperature of 830-860°C followed by water quenching. Hardness after quenching is 52-55 HRC.

Tempering

Please see the data below.

Tempering Temperature (°C) vs. Hardness (HRC)

100°C	200°C	300°C	400°C
52	50	47	43

Forging

Hot forming temperature: 1050-850°C.

Machinability

No data.

Forms manufactured: Please see the [Dimensional Sales Program](#).

Disclaimer

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