



## SIHARD 2063 Steel

### Designation by Standards

Brand Name	Ravne	Mat. No.	DIN	EN	AISI/SAE
SIHARD 2063	MERILOSP	1.2063	145Cr6	-	-

### Chemical Composition (in weight %)

C	Si	Mn	Cr	Mo	Ni	V	W	Others
1.50	0.23	0.60	1.40	-	-	-	-	-

### Description

Medium alloy cold work steel, oil hardening. Performances slightly inferior to those of our grade SIHARD 2063. Moderate deep hardening properties; good toughness.

### Applications

Small to medium size blanking and punching dies, shear blades, thread cutting tools, reamers, gauges and similar measuring instruments.

### Physical properties (average values) at ambient temperature

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

Density [ $\text{g/cm}^3$ ]: 7.80

### Soft Annealing

Heat to 740-760°C, cool slowly in furnace. This will produce a maximum Brinell hardness of 230.

### Stress Relieving

Stress relieving to remove machining stresses should be carried out by heating to approx. 650°C, holding for 1-2 hours at heat, followed by air cooling. This operation is performed to reduce distortion during heat treatment.

### Hardening

Harden from a temperature of 830-860°C followed by oil quenching (interrupt at approx. 150°C). Hardness after quenching is 64 HRC.

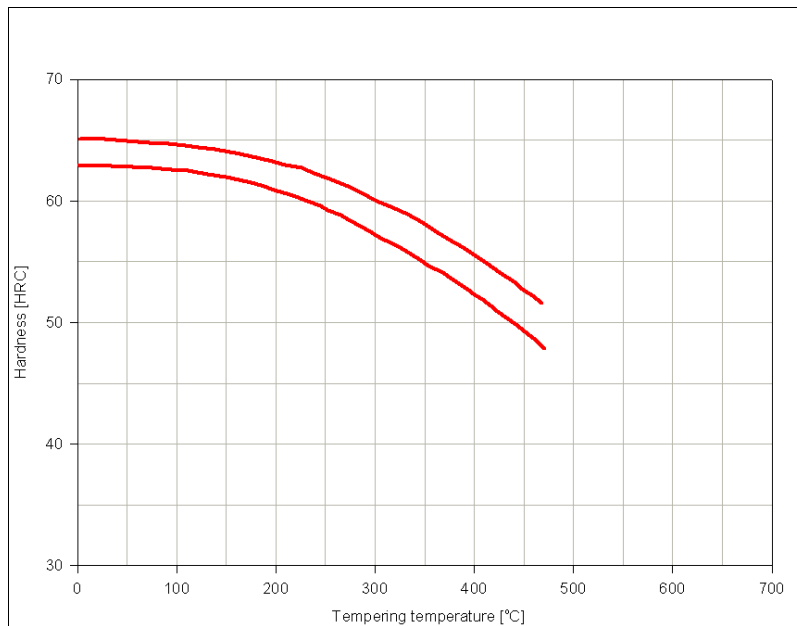
### Tempering

Tempering temperature: See the data bellow.

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

100°C	200°C	300°C	400°C
63.5	62	59	54

## Tempering Diagram



### Forging

Hot forming temperature: 1050-850°C.

### Machinability

No data.

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

### Disclaimer

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