



## SIHARD S470 Steel

### Designation by Standards

Brand Name	Ravne	Mat. No.	DIN	EN	AISI/SAE
SIHARD S470	OCR8VMS	-	-	-	-

### Chemical Composition (in weight %)

C	Si	Mn	Cr	Mo	Ni	V	W	Others
0.90	0.30	0.38	7.95	1.48	max. 0.25	2.10	-	max. Cu 0.25

### Description

Cold work steel possessing an excellent combination of toughness and wear resistance.

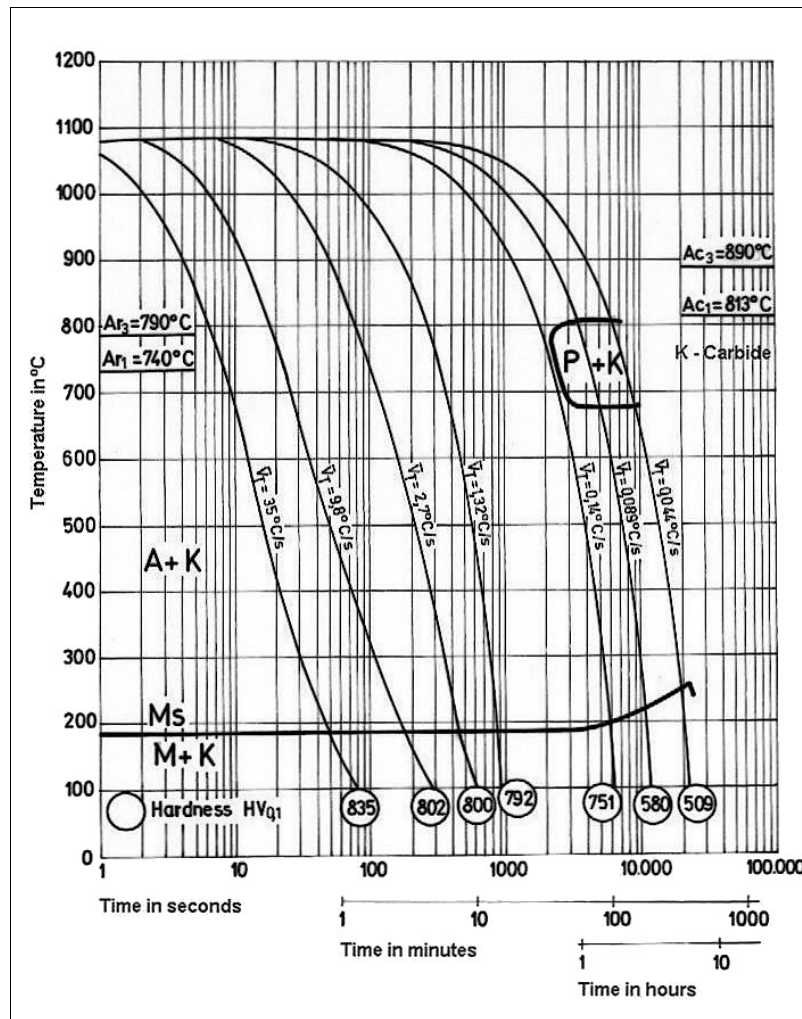
### Applications

Sendzimir rolls and other rolls for cold rolling.

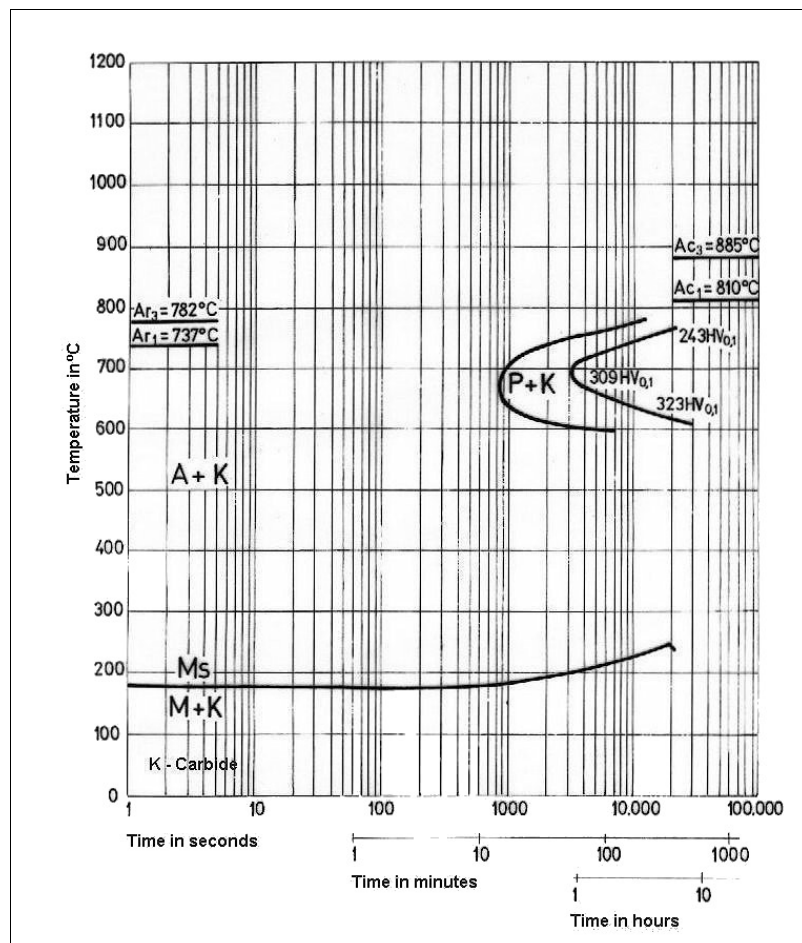
### Physical properties (average values) at ambient temperature

Density [g/cm<sup>3</sup>]: 7.70

# Continuous Cooling Transformation (CCT) Diagram



Time-Temperature Transformation (TTT) Diagram



**Soft Annealing**

Heat to 840-860°C, cool slowly in furnace. This will produce a maximum Brinell hardness of 250.

**Stress Relieving**

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

**Hardening**

Harden from a temperature of 1050-1100°C followed by oil quenching. Hardness after quenching is 62-64 HRC

**Tempering**

Tempering temperature: 520°C.

**Forging**

Hot forming temperature: 1100-980°C.

**Machinability**

No data.

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

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