



SITHERM 2362 Steel

Designation by Standards

Brand Name	Ravne	Mat. No.	DIN	EN	AISI/SAE
SITHERM 2362	OV266	1.2362	X63CrMoV5-1	-	-

Chemical Composition (in weight %)

C	Si	Mn	Cr	Mo	Ni	V	W	Others
0.63	1.10	0.40	5.25	1.0	0.30	-	-	-

Description

Cr-Mo alloyed through hardening steel with high tempering resistance.

Applications

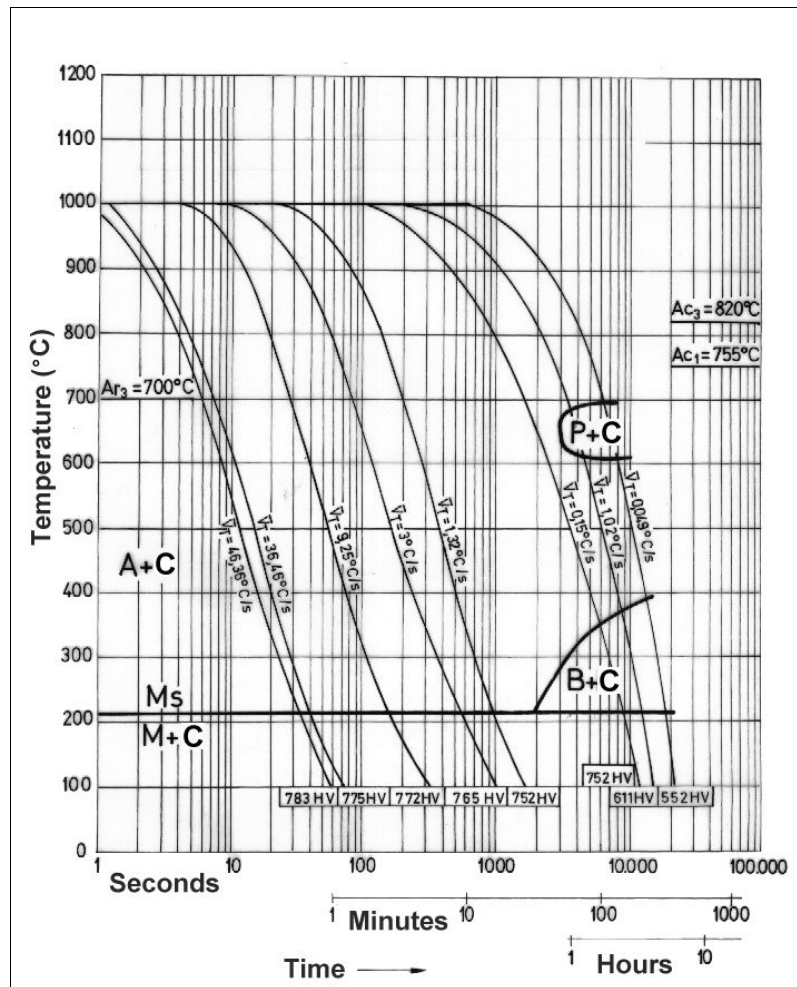
Intermediate rolls for cluster mills, trimming dies, hot cutting shears.

Physical properties (average values) at ambient temperature

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

Density [g/cm^3]: 7.81

Continuous Cooling Transformation (CCT) Diagram



Soft Annealing

Heat to $800\text{--}840^{\circ}\text{C}$, 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 $600\text{--}650^{\circ}\text{C}$, 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 $980\text{--}1020^{\circ}\text{C}$ followed by oil quenching or warm bath quenching. Hardness after quenching is 61-63 HRC.

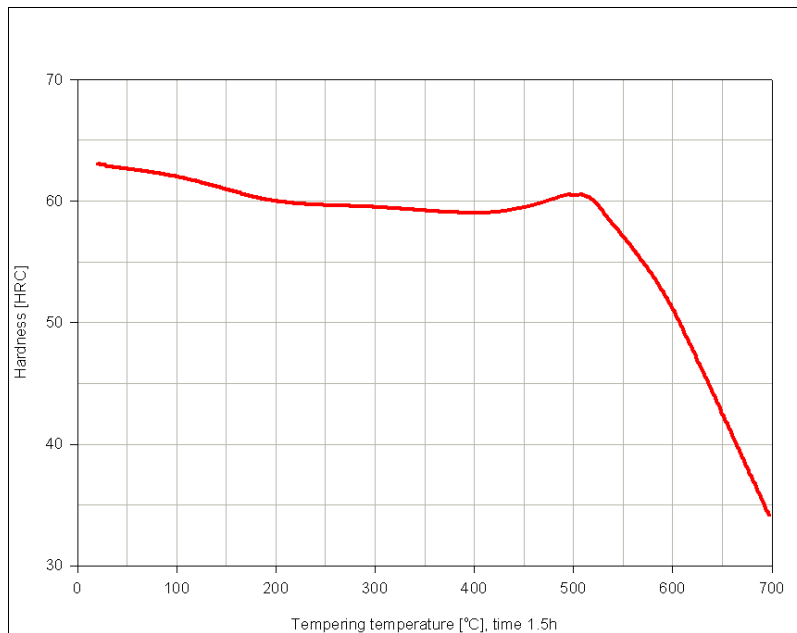
Tempering

Tempering temperature: See the data below.

Tempering Temperature ($^{\circ}\text{C}$) vs. Hardness (HRC)

100°C	200°C	300°C	400°C	500°C	550°C
61	59	58	57	61	58

Tempering Diagram



Forging

Hot forming temperature: 1100-850°C.

Machinability

No data.

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

Disclaimer

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