



## SIQUAL 7102 Steel

### Designation by Standards

Brand Name	Ravne	Mat. No.	DIN	EN	AISI/SAE
SIQUAL 7102	54SiCr6	1.7102	-	54SiCr6	-

### Chemical Composition (in weight %)

C	Si	Mn	Cr	Mo	Ni	V	W	Others
0.55	1.40	0.65	0.65	-	-	-	-	max. N = 0.007

### Description

Special structural steel.

### Applications

Hot-rolled steels for quenched and tempered springs.

### 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 640-680°C, cool slowly in furnace. This will produce a maximum Brinell hardness of 310.

### Normalizing

Temperature: 850-880°C, air.

### Hardening

Harden from a temperature of 840-870°C followed by oil quenching.

### Tempering

Tempering temperature: 430-500°C, air.

### Forging

Hot forming temperature: 1050-850°C.

### Machinability

No data.

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

### Disclaimer

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