



SIQUAL 3539 Steel

Designation by Standards

Brand Name	Ravne	Mat. No.	DIN	EN	AISI/SAE
SIQUAL 3539	OCR5MO	1.3539	100CrMnMo8 †	100CrMnMoSi8-4-6	-

Chemical Composition (in weight %)

C	Si	Mn	Cr	Mo	Ni	V	W	Others
0.97	0.50	0.95	1.93	0.55	-	-	-	-

Description

Low alloyed cold working tool steel with Mn, Cr and Mo.

Applications

Through-hardenable. Roller bearings.

Physical properties (average values) at ambient temperature

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

Density [g/cm^3]: 7.80

Soft Annealing

Heat to approx. 750°C, cool slowly. This will produce a maximum Brinell hardness of 217.

Hardening

Harden from a temperature of 800-850°C followed by oil quenching. Hardness after quenching is approx. 59 HRC.

Tempering

Tempering temperature: 100-250°C.

Forging

Hot forming temperature: 1050-850°C.

Machinability

No data.

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

Disclaimer

The information and data presented herein are typical or average values and are not a guarantee of maximum or minimum values. Applications specifically suggested for material described herein are made solely for the purpose of illustration to enable the reader to make his own evaluation and are not intended as warranties, either express or implied, of fitness for these or other purposes. There is no representation that the recipient of this literature will receive updated editions as the become available.

Unless otherwise specified, registered trademarks are property of SIJ Metal Ravne company. Copyright 2016 by SIJ Metal Ravne d.o.o. All rights reserved. Contact our [Sales Office](#) for more information.