



SIQUAL 7765 Steel

Designation by Standards

Brand Name	Ravne	Mat. No.	DIN	EN	AISI/SAE
SIQUAL 7765	PO209	1.7765	32CrMoV12-10	-	-

Chemical Composition (in weight %)

C	Si	Mn	Cr	Mo	Ni	V	W	Others
0.32	max. 0.35	max. 0.60	3.00	1.00	-	0.30	-	-

Description

Alloyed carbon steel.

Applications

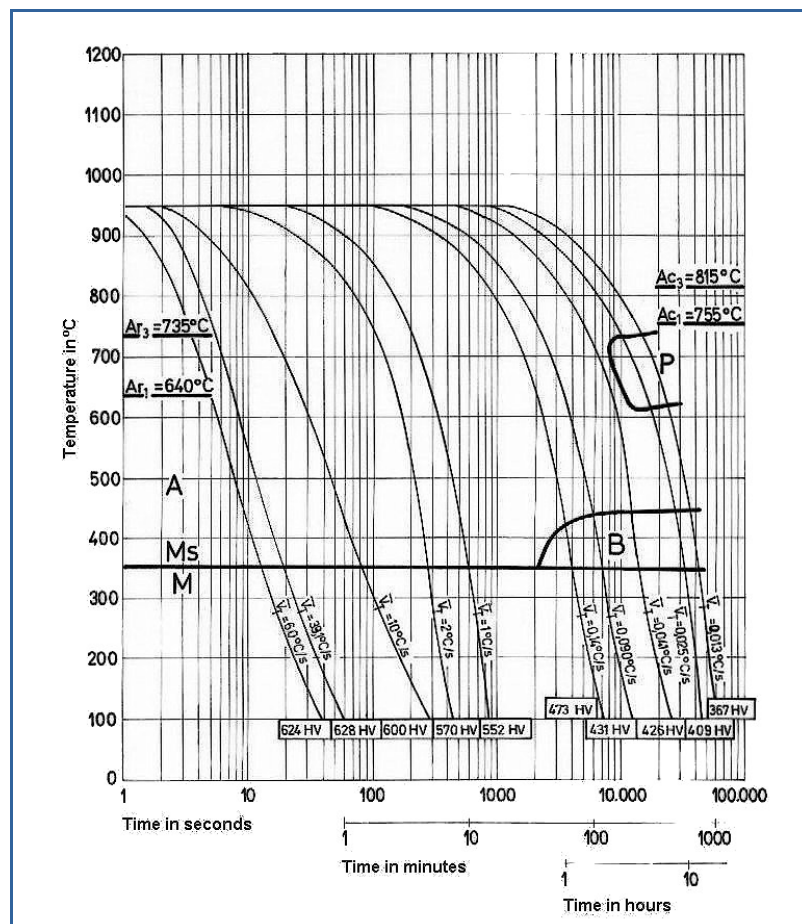
Component parts for automobile industry where high toughness is required, for bolts, screws, crankshafts, etc.

Physical properties (average values) at ambient temperature

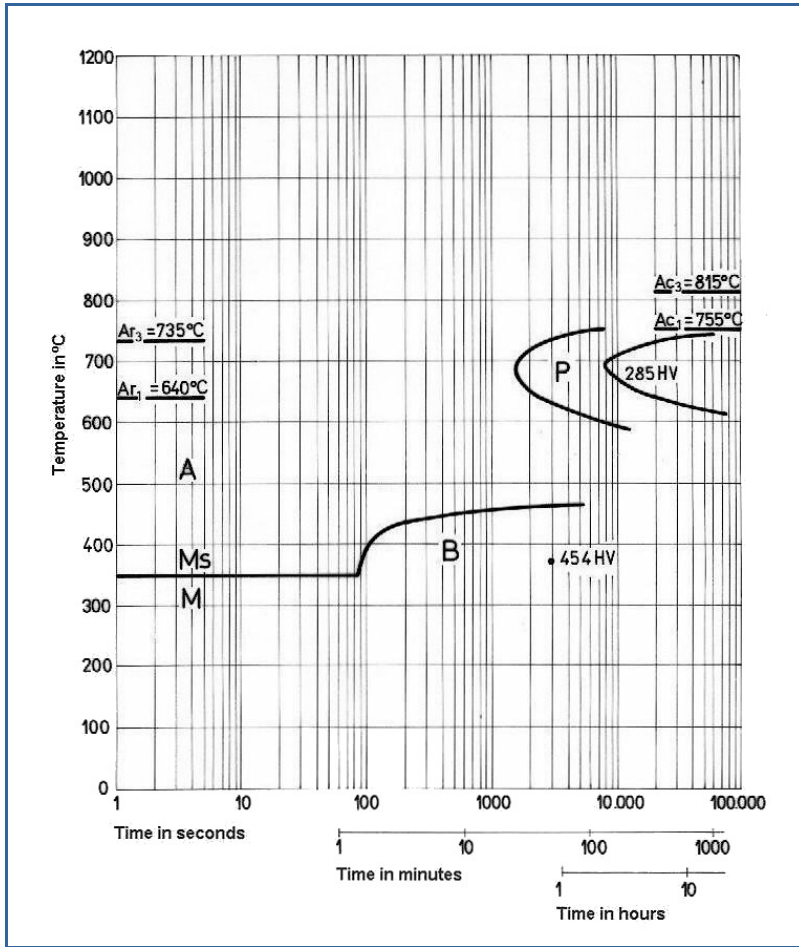
Modulus of elasticity [$10^3 \times \text{N/mm}^2$]: 210

Density [g/cm^3]: 7.82

Continuous Cooling Transformation (CCT) Diagram



Time-Temperature Transformation (TTT) Diagram



Soft Annealing

Heat to approx. 720°C, cool slowly. This will produce a maximum Brinell hardness of 224.

Hardening

Harden from a temperature of 900-950°C followed by oil quenching.

Tempering

Tempering temperature: 570-700°C.

Forging

Hot forming temperature: 1100-850°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.