

SIQUAL 7147 Steel

Designation by Standards

| Brand Name | Ravne | Mat. No. | DIN | EN | AISI/SAE |
|-------------|-------|----------|-----|---------|----------|
| SIQUAL 7147 | 20MC5 | 1.7147 | - | 20MnCr5 | - |

Chemical Composition (in weight %)

| С | Si | Mn | Cr | Мо | Ni | V | W | Others |
|------|-----------|------|------|----|-----------|---|---|--------|
| 0.19 | max. 0.10 | 1.15 | 1.25 | - | max. 0.30 | - | - | - |

Description

Alloyed carbon steel.

Applications

Higher stressed components - gears, cranks, switch components, etc.

Physical properties (average values) at ambient temperature

Modulus of elasticity [10³ x N/mm²]: 210

Density [g/cm³]: 7.85

Soft Annealing

Heat to 650-700°C, cool slowly. This will produce a maximum Brinell hardness of 217.

Carburizing

880-980 °C, water, oil, air, hot quenching 150-250 °C or case hardening box.

Core hardening

Temperature: 860-900°C.

Surface hardening

Tempertaure: 720-820°C, oil, water or hot quenching.

Tempering

Tempering temperature: 150-200°C.

Forging

Hot forming temperature: 1150-850°C.

Machinability

No data.

Forms manufactured: Please see the Dimensional Sales Program.

Disclaimer

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