

50CrV4 (Euronorm)

Other designations

Euronorm

1.8159 - EN 10089

51CrV4 - EN 10089

Germany

51 CrV 4

Chemical composition

C	0.47 - 0.55	Si	< 0.4	Mn	0.7 - 1.1	P	< 0.025
S	< 0.025	Cr	0.9 - 1.2	V	0.10 - 0.25	Fe	Rest

Properties

By EN 10089

Quenching: 850 °C, oil

Tempering: 450 °C

Yield Strength: > 1200 MPa

Tensile Strength: 1350 - 1650 MPa

Elongation: > 6 %

Reduction of area: > 30 %

Impact energy KU: > 8 J

+S

Hardness HB: < 280

+A

Hardness HB: < 248

+AC

Hardness HB: < 230