

S20C JIS G 4051 (Japan)

Standards

JIS G 4051

Carbon steels for machine structural use

Chemical composition

C	0.18 - 0.23	Si	0.15 - 0.35	Mn	0.3 - 0.6	P	< 0.03
S	< 0.035	Cr	< 0.2	Ni	< 0.2	Cu	< 0.3
Fe	Rest						
Ni + Cr < 0.35							

Properties

By JIS G 4051

A

Hardness HB: 114 - 153

H

Yield Strength: > 245 MPa

Tensile Strength: > 402 MPa

Elongation: > 28 %

Hardness HB: 116 - 174

Physical characteristics

Thermal critical point Ac: 720 - 845 °C

Thermal critical point Ar: 730 - 815 °C