Material Technical Data Sheet

WixSteel Industrial – 61SiCr7

Material No.:	Former brand name:	International steel grades:
1.7108	**60SiCr7**	**China GB:** 60Si2Mn **JIS:** SUP 7 **SAE:** 9262

Material group: Hot rolled steel for springs suitable for quenching and tempering according to DIN 17221

Chemical Composition:
(Typical analysis in %)

C	Si	Mn	S	P	Cr	Ni	Cu
0.57~0.65	1.60~2.00	0.70~1.00	≤0.025	≤0.025	≤0.45	≤0.35	≤0.25

Application: Hot rolled steel for springs suitable for quenching and tempering, as leaf springs, helical springs, stabiliser at rail-traffic vehicle, tor- sion bars.

Hot forming and heat treatment:

Hot forming:	1050 - 850°C
Hot deformation:	900 - 830°C
Normalising:	850 - 880°C
Soft annealing:	640 - 680°C
Hardening:	830 - 860°C/oil
Tempering:	350 - 550°C

Mechanical Properties:

Treated for cold shearability +S:	max. 280 HB
Soft annealed +A:	max. 248 HB
Spheroidized annealed - GKZ (+AC)	max. 230 HB
Core hardness after quenching:	min. 54 HRC
Tensile strength σb (MPa):	≥1274(130)
Yield strength σs (MPa):	≥1176(120)
Elongation δ10 (%):	≥5
Reduction of area ψ (%):	≥25

 https://www.wixsteel.com/ info@wixsteel.com