

## Material specification sheet

### Saarstahl - 61SiCr7 (60SiCr7)

Material No.:

1.7108

Former brand name:

International steel grades:

**BS:**  
**AFNOR:** 60SC7  
**SAE:** 9262

**Material group:**

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

<b>Chemical composition:</b> (Typical analysis in %)	<b>C</b>	<b>Si</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Cr</b>
	0,57	1,50	0,70	<0,030	<0,030	0,20
	0,65	1,80	1,00			0,40

**Application:**

Hot rolled steel for springs suitable for quenching and tempering, as leaf springs, helical springs, stabiliser at rail-traffic vehicle, torsion 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