

50HF (1.8159)	stock sizes [mm]
sheets	from 0.5 mm to 60 mm thickness
bands	0.5 and 0.8 mm thickness; in various widths
round bars	from $\Phi$ 20 mm to $\Phi$ 300 mm diameter
flat bars	from 40 to 120 mm width and from 6 to 40 mm thickness

**Description:**

Chromium-Vanadium spring steel;

**Application:**

Flat springs, leaf springs, coil and plate spring, torsion bars,

**Skład chemiczny [%]**

C	Mn	Si	P	S	Cr	Ni	Mo	W	V	Co	Cu
0,46-0,54	0,5-0,8	0,15-0,4	max 0,03	max 0,03	0,8-1,1	max 0,4	-	-	0,1-0,2	-	max 0,25

**Equivalents**

PN	W. nr	EN	AISI	Russia (GOST)	Other
50HF	1.8159	50CrV4	6150	50ChFA	15260

**Processes**

welding	NO	
forging	YES	
rolling	YES	
nitriding	NO	
hardening	YES	temp. 840 - 860 [°C]
tempering	YES	temp. 480 - 520 [°C]

**Hardness**

after softening	250 HB
Rm	1280 MPa
Re	1080 MPa