

## STEEL GRADE

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# 55Cr3

All

## General Information

55Cr3 according to Ovako standard is a chromium spring steel with a dash of niobium to be used in quenched and tempered condition; suitable application is for example stabilizer bars.

## Similar designations

SB 9257 - 54Cr3, 1.7176, 527A60, GOST 50ChGA, AISI/SAE/ASTM 5155, 5160

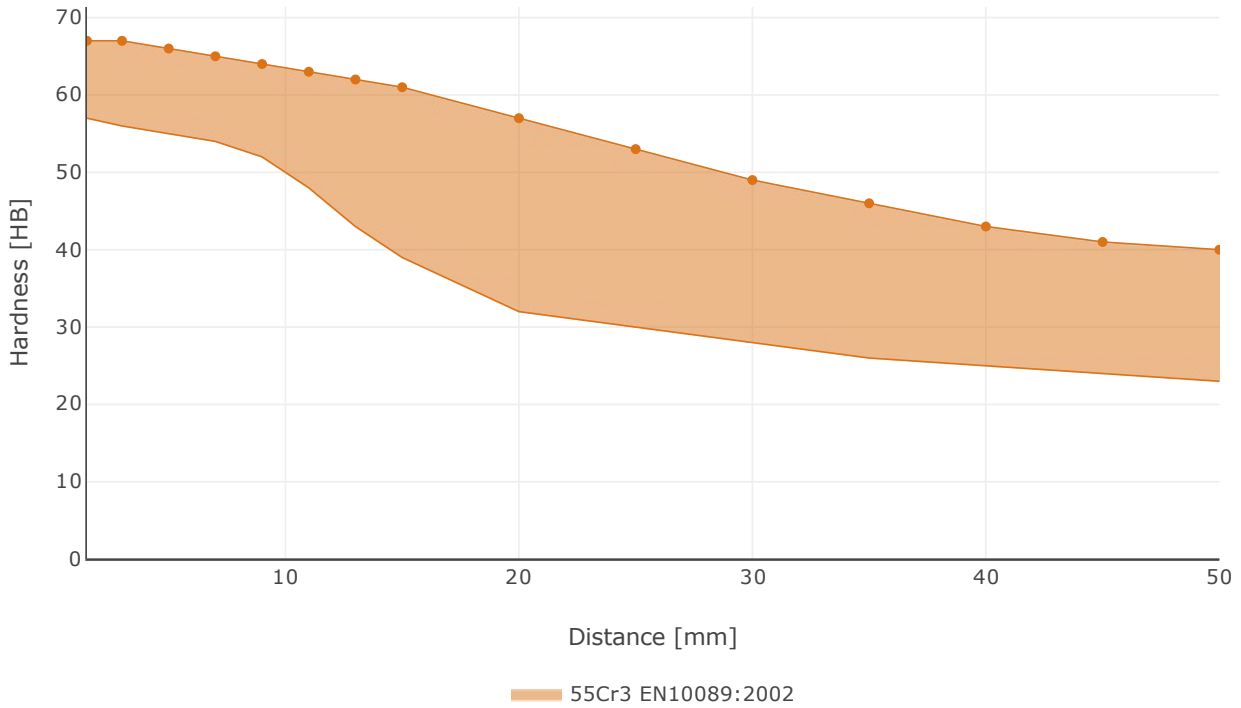
## Chemical composition

Variant	Cast	Weldability		C %	Si %	Mn %	P %	S %	Cr %
55Cr3 EN10089:2002	CC	CEV 0.88 <sub>max</sub>	Min	0.52	-	0.70	-	-	0.70
		Pcm 0.66 <sub>max</sub>	Max	0.59	0.40	1.00	0.025	0.025	1.00

## Transformation temperatures

	Temperature °C
MS	263
AC1	734
AC3	763

## Hardenability



## SUSTAINABILITY-ENVIRONMENTAL IMPACT DATA

At Ovako sustainability and reduction of our environmental impact is a major focus in everything we do.

Further information is found [here](#).

Steel works	Hofors	Smedjebacken	Imatra
CO <sub>2</sub> e/kg	120	62	76

To get the full picture of our products environmental impact we have to look at all of our CO<sub>2</sub> emission sources.

Not only the steel work Scope 1-2 itself, but all operations downstream in our production, heating and heat treatment furnaces etc (full scope 1-2) as well as all the emission from input material, eg. alloys, scope 3.

Steel Grade	Format	Condition	Scope 1-3 (CO <sub>2</sub> e kg /1000 kg steel)
SB9257	Round bar	+AR	443

All above data are to be seen as typical values for the specified format and condition. Detailed information about your specific product please contact your sales contact.

## Other properties (typical values)

Youngs module (GPa)	Poisson 's ratio (-)	Shear module (GPa)	Density (kg/m <sup>3</sup> )
210	0.3	80	7800
Average CTE 20-300°C (µm/m°K)	Specific heat capacity 50/100°C (J/kg °K)	Thermal conductivity Ambient temperature (W/m°K)	Electrical resistivity Ambient temperature (µΩm)
12	460 - 480	40 - 45	0.20 - 0.25

## Contact us

Would you like to know more about our offers? Don't hesitate to contact us:

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Via telephone: +46 8 622 1300

For more detailed information please visit <http://www.ovako.com/en/Contact-Ovako/>

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