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30MnB5



General Information

Grade SB33M13B is a boron steel for general purposes without any specified mechanical properties. Its closest equivalent is found in the EN10083-3:2006 grade 30MnB5. The difference is the carbon and chromium content.

SB33M13B may serve as wear parts in for example graders and snow ploughs but also suitable for agriculture machinery.

Similar designations

SB33M13B/9671 - 33MnB5-3, SB30M13B/9662 - 29MnB5-3

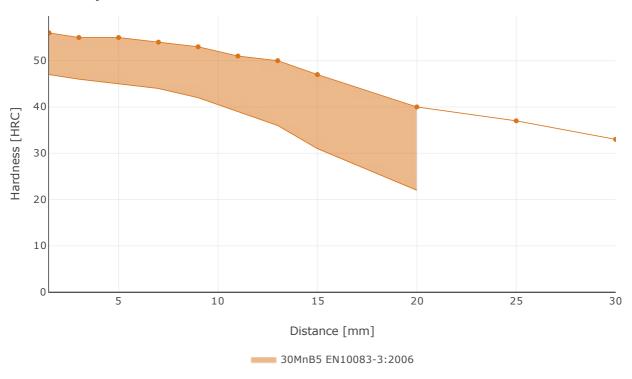
Chemical composition

Variant	Cast	Weldability		C %	Si %	Mn %	Р%	S %	В %
30MnB5 EN10083-3:2006	СС	CEV 0.53 _{max}	Min	0.27	-	1.15	-	-	0.0008
		Pcm 0.41 _{max}	Max	0.33	0.40	1.45	0.025	0.035	0.0050

Transformation temperatures

	Temperature °C			
MS	360			
AC1	717			
AC3	772			

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
CO2e/kg	120	62	76

To get the full picture of our products environmental impact we have to look at all of our CO_2 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	_		Climate compensated Net emission = Scope 3 (CO2e kg /1000 kg steel) Scope 1 - 2 = 0 (compensated)
SB30M13B/9662	Flat bar	+AR	409	172
SB33M13B/9671	Flat bar	+AR	406	170

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/m3)		
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 resistivityAmbient 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:

Via e-mail: info@ovako.com

Via telephone: +46 8 622 1300

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

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