

30MnB5 All

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 %	P %	S %	Cr %	Ti %	B %
SB30M13B/9662	CC	CEV 0.57 _{max}	Min	0.27	0.15	1.20	0.000	0.000	0.10	0.025	0.0010
		Pcm 0.4 _{max}	Max	0.32	0.35	1.40	0.035	0.035	0.25	0.050	0.0050
SB33M13B/9671	CC	CEV 0.6 _{max}	Min	0.30	0.15	1.20	-	-	0.10	-	0.0010
		Pcm 0.44 _{max}	Max	0.36	0.35	1.40	0.035	0.035	0.30	-	0.0060
30MnB5 EN10083-3:2006	CC	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

Mechanical Properties

Variant	Condition	Format	Dimension [mm]	Hardness
SB30M13B/9662	+AR	All formats	15 < 100	< 235 HB

*Rp0,2 * Reh, ** Rel*

Transformation temperatures

	Temperature °C
MS	360
AC1	717
AC3	772

Hardenability

Other properties (typical values)

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

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