Material data sheet
Steel grade

SB43M14B
Last revised: Thu, 03 Nov 2016 13:06:23 GMT

OVAKO

43MnB5-3* All

General Information

Grade SB43M14B is a boron steel for general purposes without any specified mechanical properties. SB43M14B has the highest level of hardness and wear resistance achievable in the standard range of boron steels. Therefore is it an excellent choice for use in machine knives and garden tools.

** Designation followed by "*" is not an official EN standard grade but named according to the rules in EN 10027.*

Similar designations

SB43M14B - 43MnB5-3, 1.3563

Chemical composition

Variant	Cast	Weldability		C %	Si %	Mn %	P %	S %	Cr %	B %
SB43M14B	CC	CEV 0.72$_{max}$	Min	0.40	0.15	1.30	-	-	0.10	0.0010
		Pcm 0.55$_{max}$	Max	0.46	0.35	1.50	0.035	0.035	0.30	0.0060

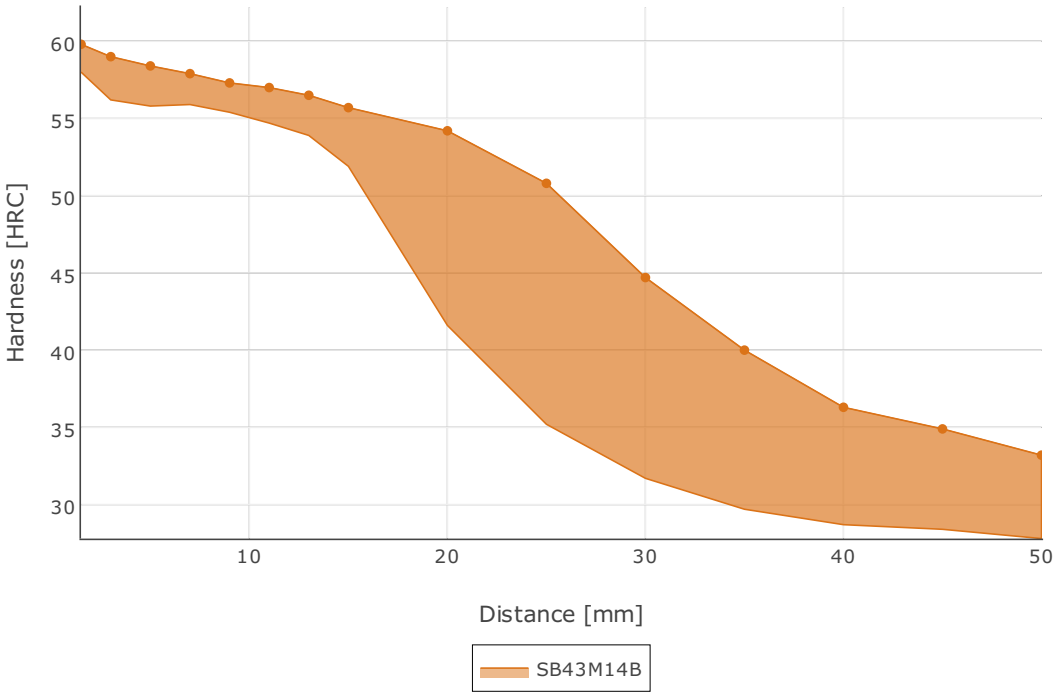
Mechanical Properties

Variant
$Rp_{0.2}$ * R_{eh}, ** R_{el}

Transformation temperatures

	Temperature °C
MS	310
AC1	719
AC3	752

Hardenability



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

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