

30MnVS6 All

General Information

30MnVS6 is a micro alloyed cold heading steel which is used for example for short and longshaft ball points, threaded and heavy duty anchor bolts

Similar designations

9830 - 28MnV6

Chemical composition

Variant	Cast	Weldability		C%	Si%	Mn%	P%	S%	Cr%	Ni%	V%	Cu%	N%
9830	CC	CEV 0.64 _{max}	Min	0.26	0.35	1.40	-	-	-	-	0.080	-	0.0100
		Pcm 0.41 _{max}	Max	0.30	0.55	1.60	0.025	0.035	0.25	0.30	0.200	0.35	0.0200
30MnVS6 EN10267:1998	CC	CEV 0.65 _{max}	Min	0.26	0.15	1.20	-	0.020	-	-	0.080	-	0.0100
		Pcm 0.43 _{max}	Max	0.33	0.80	1.60	0.025	0.060	0.30	-	0.200	-	0.0200

Mechanical Properties

Variant	Condition	Format	Yield strength min [MPa]	Tensile strength [MPa]	Elongation A ₅ [%]	Reduction of area Z _{min} [%]	Hardness
9830	+AR	Round bar	600**	850-1000	14	-	230-310 HB
30MnVS6 EN10267:1998	+AR	All formats	450*	700-900	14	30	-

*R_{p0.2} * R_{eh}, ** R_{el}*

Transformation temperatures

	Temperature °C
MS	370
AC1	720
AC3	800

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 resistivity Ambient temperature (µΩm)
12	460 - 480	40 - 45	0.20 - 0.25

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Via e-mail: info@ovako.com

Via telephone: +46 8 622 1300

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