

14NiCr12-3 All

General Information

M-Steel®

The basis for the concept is that non-metallic inclusions are modified and controlled with calcium treatment in a way to minimize tool wear and to maximize chip control in machining operations.

Our M-Steel treatment can be applied to any steel grade.

For further reading about our M-steel concept see our home page.


Similar designations

BS 655H13, BS 832M13, BS 832H13

Chemical composition

Variant	Cast	Di		C%	Si %	Mn %	P %	S %	Cr%	Ni%	Mo %
4715	CC	2	Min	0.10	0.10	0.35	0.000	0.020	0.70	3.00	0.10
			Max	0.16	0.40	0.60	0.030	0.040	1.00	3.75	0.15

Mechanical Properties

Variant	Condition 	Format	Dimension [mm]	Hardness
4715	+AR	Round bar	25 < 160	< 280 HB
	+A	Round bar	25 < 160	< 255 HB

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

Transformation temperatures

	Temperature °C
MS	386
AC1	695
AC3	806

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

Contact us

Would you like to know more about our offers? Don´t hesitate to contact us:

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

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