

95Cr5 All

General Information

Imatra C 100 is high carbon grade alloyed with Cr and mainly used for grinding rods in ore processing

Similar designations

E51100

Chemical composition

Variant	Cast		C %	Si %	Mn %	P %	S %	Cr %
C100	CC	Min	0.90	-	0.25	-	-	0.80
		Max	1.20	0.50	0.50	0.030	0.040	1.70

Mechanical Properties

Variant	Condition	Format	Dimension [mm]	Hardness
C100	+AR	Round bar	< 100	340-400 HB

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

Transformation temperatures

	Temperature °C
MS	220
AC1	750
AC3	750

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°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:

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/>

Disclaimer

The information in this document is for illustrative purposes only. The data and examples are only general recommendations and not a warranty or a guarantee. The suitability of a product for a specific application can be confirmed only by Ovako once given the actual conditions. The purchaser of an Ovako product has the responsibility to ascertain and control the applicability of the products before using them. Continuous development may necessitate changes in technical data without notice. This document is only valid for Ovako material. Other material, covering the same international specifications, does not necessarily comply with the properties presented in this document.