

# 11SMn30 All

## General Information

2715, also called Green Cut, has been developed to replace leaded free-cutting steels, when the customer is looking for an environmentally friendly alternative. High sulfur content combined with M-treatment gives superior machinability both with carbide and HSS tools.

For additional Heat Treatment Data, please visit the Heat Treatment Guide.

## 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

SS 1912, SS 1914, 1.0715

## Chemical composition

Variant	Cast	Di	Weldability		C%	Si%	Mn%	P%	S%
2715	CC	0.57	CEV 0.4 <sub>max</sub>	Min	0.05	0.05	1.00	-	0.220
			Pcm 0.22 <sub>max</sub>	Max	0.14	0.40	1.40	0.050	0.330

## Mechanical Properties

Variant	Condition	Format	Dimension [mm]	Yield strength min [MPa]	Tensile strength [MPa]	Elongation A <sub>5</sub> [%]	Hardness
2715	+AR	Round bar	25 < 200	270*	360-540	22	120-160 HB
	+C	Round bar	20 < 40	375*	460-710	8	160-210 HB
		Round bar	40 < 55	305*	400-650	9	150-200 HB
	+SH	Round bar	23 < 125	270*	360-540	22	120-160 HB

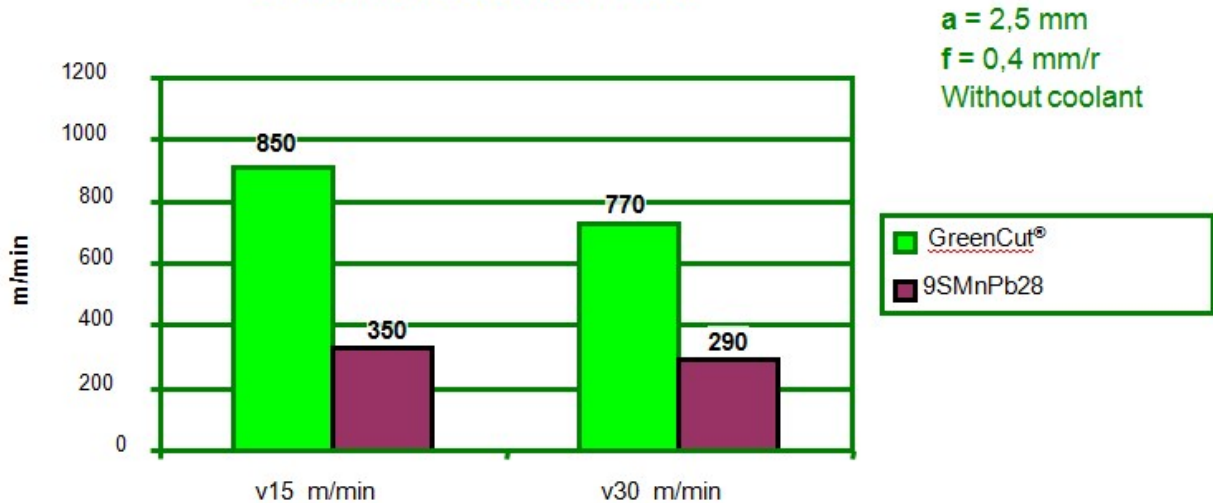
*R<sub>p0.2</sub> \* R<sub>eh</sub>, \*\* R<sub>el</sub>*

## Transformation temperatures

	Temperature °C
MS	436
AC1	715
AC3	843

# GreenCut® Turning with carbide tool

Seco CNMG 120408 M3 TP1000



### 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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