

22Mn5* All

General Information

2630, also known as Hydax 25 has high sulfur content to further improve the machinability of M-steel. Mechanical properties fulfil the requirements of the standard EN 10025-2 steel grade S355J0.

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.

Chemical composition

Variant	Cast	Di	Weldability		C%	Si %	Mn %	P%	S %
2630	CC	1	CEV 0.47 _{max}	Min	0.18	0.15	1.00	-	0.090
			Pcm 0.31 _{max}	Max	0.26	0.55	1.60	0.035	0.150

Mechanical Properties

Variant	Condition	Format	Dimension [mm]	Yield strength min [MPa]	Tensile strength [MPa]	Elongation A ₅ [%]	Reduction of area Z _{min} [%]	Hardness	Impact (ISO-V) strength _{min}
2630	+AR	Round bar	25 < 40	345*	490-630	22	45	< 180 HB	0 °C 27 J (long)
		Round bar	40 < 80	335*	490-630	21	45	< 180 HB	0 °C 27 J (long)
		Round bar	80 < 200	315*	490-630	20	45	< 180 HB	0 °C 27 J (long)

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

Billets and block material also available. Mechanicals as in round bars ø 80 - 200 mm

Transformation temperatures

	Temperature °C
MS	396
AC1	718
AC3	823

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:

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.