



CAST IRON BAR SPECIALIST

DATA SHEET

Tasso Grade EN-GJS-500-7C

(According to EN 16482:2014, subsequently EN 1563:2012)

Characteristics: This grade has high wear resistance, strength and heat treatment response. It possesses good machinability and excellent surface finish. Noise and vibration damping are good in this grade.

Profile and size range	
Round	Diameter 40 - 400 mm
Square	40 x 40 mm – 300 x 300 mm
Rectangle	Upon request
Non Standard	Sizes/profiles are available or can be produced according to agreement.

Identification:

Tasso EN-GJS-500-7C is marked with a yellow and a blue dot on the terminal surface.



Chemistry (Main elements):

The chemical composition is subordinate to the mechanical properties and may vary depending on bar size and production flow parameters.

Element
Iron
Carbon
Silicon
Manganese
Phosphorous
Sulphur
Others/Alloying

Mechanical Properties: (As taken from mid-radius of cast bar, not separately cast test bar)

Material specification	Material Section	0.2 % Proof Strength N/mm ² min.	Tensile Strength N/mm ² min.	Elongation % min.
Tasso EN-GJS-500-7C	20 mm - 60 mm	320	500	7
	>60 mm - 120 mm	300	450	7
	>120 mm - 400 mm	290	420	5

Reference: EN 16482:2014, Table 2

Brinell Hardness Range: 150-230 HB measured as an average of the center and the rim area of the bar (10 mm diameter ball).
(Informative)

Microstructure: Nodular graphite. The matrix structure is approx. 30% or more pearlitic and may contain quantities of free carbides.
(Informative)

Heat Treat Response: Tasso EN-GJS-500-7C can be hardened, but higher grades are recommended.

Density: 7.25 g/cc + 3% for oversize and gross length of bar.