



CAST IRON BAR SPECIALIST

DATA SHEET

Tasso Grade EN-GJS-500-14C

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

Characteristics: This solution strengthened grade has superior machinability as well as physical properties compared to traditional GJS-500, combined with good impact, fatigue, electrical conductivity and magnetic permeability. 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	Other sizes/profiles are available or can be produced according to agreement.

Identification:

Tasso EN-GJS-500-14C is marked with a blue and two yellow dots 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-500-14C	20 mm - 60 mm	400	500	14
	>60 mm - 120 mm	390	480	12
	>120 mm - 400 mm	360	470	10

Reference: EN 16482:2014, Table 2

Brinell Hardness Range: 170-215 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 is approx. 20% or less pearlitic and may contain minor quantities of free carbides.
(Informative)

Heat Treat Response: Tasso EN-GJS-500-14C is not recommended for hardening and tempering.

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