



PART OF BIRN GROUP

TASSOBAR EN-GJS-500-14C

(According to EN 16482:2014, subsequently EN 1563:2018)

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 – 440 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

TassoBar 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.

Elements
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.
TassoBar 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 (Informative): 170-215 HB measured as an average of the center and the rim area of the bar (10 mm diameter ball).

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

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

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

Issue 5, 12.04.2023 (check online to validate version)