



PART OF BIRN GROUP

TASSOBAR EN-GJS-500-7C

(According to EN 16482:2024)

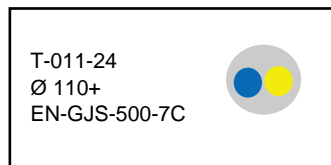
Characteristics

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 41 – 400 mm
Square	40 x 40 mm – 280 x 280 mm
Rectangle	Upon request
Non-standard	Other sizes/profiles are available or can be produced according to agreement

Identification

Each TASSO-Bar is labelled with detailed information for full traceability:
Batch Number – Colour Code - Dimension – Material Grade.



Chemistry (main elements)

The chemical composition is subordinate to the mechanical properties and at the discretion of Tasso.

Elements	Typical %
Iron	Balance
Carbon	3.20-3.80
Silicon	2.20-2.80
Manganese	0.25-0.55
Phosphorous	0.04 (guidance)
Sulphur	0.01 (guidance)
Others/Alloying	Residual

Mechanical Properties: (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.
I assoBar 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 16482:2024, Table 2

Brinell Hardness Range (Informative): 150-230 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-500-7C can be hardened, but higher grades are recommended.

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

Issue 7, 30.12.2024 (check online to validate version)