



PART OF BIRN GROUP

TASSOBAR EN-GJS-400-15C

(According to EN 16482:2024)

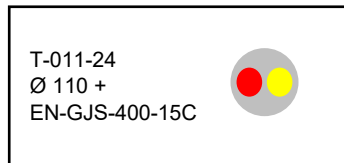
Characteristics

This grade has superior machinability combined with good impact, energy, electrical conductivity and magnetic permeability. Noise and vibration damping are good in this grade.

Profile and size range	
Round	Diameter 41 – 440 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.
TassoBar EN-GJS-400-15C	20 mm - 60 mm	250	400	15
	>60 mm - 120 mm	250	390	14
	>120 mm - 400 mm	240	370	11

Reference: EN 16482:2024, Table 2

Brinell Hardness Range (Informative): 120-180 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. 20% or less pearlitic and may contain minor quantities of free carbides.

Heat Treat Response: EN-GJS-400-15C is not recommended for hardening and tempering.

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

Issue 7, 30.12.2024 (check online to validate version)