

TASSOBAR EN-GJS-500-14C

(According to EN 16482:2024)

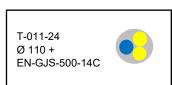
Characteristics

This solution strengthened grade has superior machinability as well as physical properties compared to traditional GJS-500-7C, 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 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 may vary depending on bar size and production flow parameters.

Elements	Typical %
Iron	Balance
Carbon	3.00-3.80
Silicon	2.50-3.20
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/mm² min.	Tensile Strength N/mm² min.	Elongation % min.
TACCODes	20 mm - 60 mm	400	500	14
TASSOBar EN-GJS-500-14C	>60 mm - 120 mm	390	480	12
LI4-000-000-140	>120 mm - 400 mm	360	470	10

Reference: EN 16482:2024, 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. Annealing heat treatment is recommended for this material grade.

Heat Treat Response: 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 7, 30.12.2024 (check online to validate version)