

## TASSOBAR EN-GJS-400-18C-LT

(According to EN 16482:2024)

### Characteristics

This grade is designed for low temperature applications and 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	
<b>Round</b>	Diameter 41 – 440 mm
<b>Square</b>	40 x 40 mm – 280 x 280 mm
<b>Rectangle</b>	Upon request
<b>Non-standard</b>	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.

T-011-24  
Ø 110 +  
EN-GJS-400-18C-LT



### 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 <sup>2</sup> min.	Tensile Strength N/mm <sup>2</sup> min.	Elongation % min.	Impact Energy Joule -20°C avg./min.
<b>TassoBar EN-GJS-400- 18C-LT</b>	20 mm – 60 mm	240	400	18	12 / 9
	>60 mm – 120 mm	230	380	15	10 / 7
	>120 mm - 400 mm	220	360	12	10 / 7

Reference: EN 16482:2024, Table 2 & 4

**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-400-18C-LT is not recommended for hardening and tempering.

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

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