



PART OF BIRN GROUP

# TASSOBAR EN-GJL-250C

(According to EN 16482:2014, subsequently EN 1561:2023)

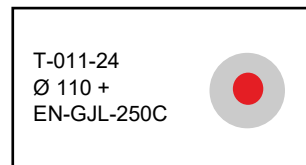
## Characteristics

This grade offers a good combination of strength and wear resistance, while still possessing good machinability and produces excellent surface finishes. Noise and vibration damping are excellent 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



## 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	2.90-3.50
Silicon	2.00-2.90
Manganese	0.40-0.90
Phosphorous	0.07-0.15
Sulphur	0.04-0.08
Others/Alloying	Residual

**Mechanical Properties:** (As taken from mid-radius of cast bar, not separately cast test bar).

Material Specification	Material Section	Tensile Strength N/mm <sup>2</sup> min.
<b>TassoBar EN-GJL-250C</b>	20 mm – 50 mm	195
	>50 mm – 100 mm	180
	>100 mm – 200 mm	165
	>200 mm – 400 mm	155

Reference: EN 16482:2014, Table 1

**Brinell Hardness Range (Informative):** 170-240 HB measured as an average of the center and the rim area of the bar (10 mm diameter ball).

**Microstructure (Informative):** A, D & E graphite flakes. The matrix is approx. 60% or more pearlitic. The rim is predominantly ferritic and may contain minor quantities of free carbides.

**Heat Treat Response:** TassoBar EN-GJL-250C is not recommended for hardening applications and heat treatment.

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

Issue 5, 18.01.2024 (check online to validate version)