

TASSOBAR EN-GJL-200C

(According to EN 16482:2024)

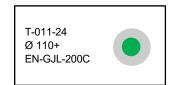
Characteristics

This grade offers exceptional machinability and excellent surface finishes, but limited strength and wear resistance. Noise and vibration damping are excellent 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 | 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: (Taken from mid-radius of cast bar, not separately cast test bar).

| Material Specification | Material Section | Tensile Strength N/mm² min. |
|------------------------|------------------|---------------------------------------|
| | 20 mm – 50 mm | 155 |
| Tagas Bay EN C II 0500 | >50 mm – 100 mm | 140 |
| TassoBar EN-GJL-250C | >100 mm – 200 mm | 125 |
| | >200 mm – 400 mm | 115 |

Reference: EN 16482:2024, Table 1

Brinell Hardness Range (Informative): 140-210 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. 40% or more pearlitic. The rim is predominantly ferritic and may contain minor quantities of free carbides.

Heat Treat Response: TassoBar EN-GJL-200C is not suitable for hardening applications.

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

Issue 5, 30.12.2024 (check online to validate version)