



PART OF BIRN GROUP

TASSOBAR EN-GJS-400-15C

(According to EN 16482:2014, subsequently EN 1563:2018)

Characteristics

This grade has superior machinability 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 40 – 440 mm |
| Square | 40 x 40 mm – 300 x 300 mm |
| Rectangle | Upon request |
| Non-standard | Other sizes/profiles are available or can be produced according to agreement |

Identification

TassoBar EN-GJS-400-15C is marked with a red and a yellow dot on the terminal surface.



Chemistry (main elements)

The chemical composition is subordinate to the mechanical properties and may vary depending on bar size and production flow parameters.

| Elements |
|-----------------|
| Iron |
| Carbon |
| Silicon |
| Manganese |
| Phosphorous |
| Sulphur |
| Others/Alloying |

Mechanical Properties: (As 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 16482:2014, Table 1

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: TassoBar EN-GJS-400-15C is not recommended for hardening and tempering.

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

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