



PART OF BIRN GROUP

TASSOBAR EN-GJS-800-2C

(According to EN 16482:2014, subsequently EN 1563:2023)

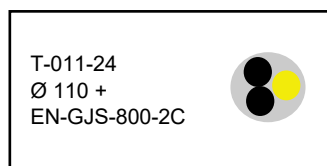
Characteristics

This grade offers high wear resistance, strength and heat treatment response. It has reasonable machinability and excellent surface finish. Noise and vibration damping are good in this grade.

Profile and size range	
Round	Diameter 41 – 140 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	3.20-3.80
Silicon	2.20-2.80
Manganese	0.25-0.55
Phosphorous	0.04 (guidance)
Sulphur	0.01 (guidance)
Others/Alloying	Residual

Mechanical Properties: (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 GJS-800-2C	>20 mm - 60 mm	480	800	2
	*>60 mm - 120 mm	*400	*700	*2
	*>120 mm - 400 mm	*380	*650	*1

Reference: EN 16482:2014, Table 2

*Unless otherwise agreed in writing between purchaser and producer.

Brinell Hardness Range (Informative): 270-330 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 structure is approx. 80% or more pearlitic and may contain minor quantities of free carbides.

Heat Treat Response: TassoBar GJS-800-2C can be hardened.

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

Issue 6, 08.02.2024 (check online to validate version)