TASSOBAR EN-GJL-250C-PHOS

(According to EN 16482:2024)

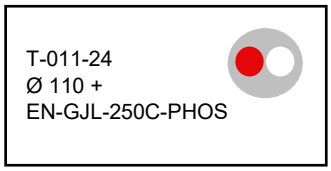
Characteristics

This grade offers an extremely good combination of strength and a superior 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	
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 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	0.40-0.70
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/mm^2 min.
TASSO-Bar EN-GJL-250C-PHOS.	20 mm – 50 mm	195
	>50 mm – 100 mm	180
	>100 mm – 200 mm	165
	<200 mm – 400 mm	155

Reference: EN 16482:2024, Table 1

Brinell Hardness Range (Informative): 190 - 260 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 (min. 80% in total). The matrix is approx. 80% or more pearlitic and contains a eutectic phosphorous steadite net. The rim is predominantly ferritic and may contain minor quantities of free carbides.

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

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

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