



TassoBar EN-GJL-250C-PHOS.

(According to EN 16482:2014, subsequently EN 1561:2012)

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 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-GJL-250C-PHOS. is marked with a red and a white 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: 0,40 – 0,70%
Sulphur
Others/Alloying

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

Material Specification	Material Section	Tensile Strength N/mm ² min.
TassoBar 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 16482:2014, 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: TassoBar 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.