TASSOBAR EN-GJS-400-18C-LT

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

Characteristics

This grade is designed for low temperature applications and has superior machinability combined with good impact, fatique, 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-400-18C-LT is marked with a red and two yellow dots 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/mm² min.	Tensile Strength N/mm² min.	Elongation % min.	Impact Energy Joule -20°C avg./min.
TassoBar EN-GJS-400-18C-LT	20 mm – 60 mm	240	400	18	12 / 9
	>60 mm – 120 mm	230	380	15	10 / 7
	>120 mm - 400 mm	220	360	12	10 / 7

Reference: EN 16482:2014, Table 2 and EN 1563:2012, Table 2

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: EN-GJS-400-18C-LT is not recommended for hardening and tempering.

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

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