



CAST IRON BAR SPECIALIST

DATA SHEET

Tasso Grade EN-GJL-300C

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

Characteristics: This grade has excellent wear resistance, strength and heat treatment response. It has reasonable machinability and an excellent surface finish. 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:

Tasso EN-GJL-300C is marked with 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.

Element
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	Tensile Strength N/mm ² min.
Tasso EN-GJL-300C	20 mm – 50 mm	220
	>50 mm – 100 mm	205
	>100 mm- 200 mm	195
	>200 mm – 400 mm	185

Reference: EN 16482:2014, Table 1

Brinell Hardness Range: 200-270 HB measured as an average of the center and the rim area of the bar (10 mm diameter ball).
(Informative)

Microstructure: A, D & E graphite flakes. The matrix is approx. 80% or more pearlitic. The rim is predominantly ferritic, and may contain minor quantities of free carbides.
(Informative)

Heat Treat Response: Tasso EN-GJL-300C can be hardened with heat treatment.

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