



CAST IRON BAR SPECIALIST

DATA SHEET

Tasso Grade EN-GJS-600-3C

(According to EN 16482:2014, subsequently EN 1563:2012)

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

Profile and size range	
Round	Diameter 40 - 400 mm
Square	40 x 40 mm – 300 x 300 mm
Rectangle	Upon request
Non Standard	Sizes/profiles are available or can be produced according to agreement.

Identification:

Tasso EN-GJS-600-3C is marked with a yellow 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.

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	0.2 % Proof Strength N/mm ² min.	Tensile Strength N/mm ² min.	Elongation % min.
Tasso EN-GJS-600-3C	>20 mm - 60 mm	370	600	3
	>60 mm - 120 mm	360	600	2
	>120 mm - 400 mm	340	550	1

Reference: EN 16482:2014, Table 2

Brinell Hardness Range: (Informative) 180-250 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. 60% or more pearlitic and may contain minor quantities of free carbides.

Heat Treat Response: Tasso EN-GJS-600-3C can be hardened.

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