



CAST IRON BAR SPECIALIST

DATA SHEET

Tasso Grade EN-GJS-700-2C

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

Characteristics: This grade offers high wear resistance, strength and heat treatment response. It has reasonable machinability and excellent surface finish. Noise and vibration damping are good in this grade.

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-700-2C is marked with a yellow and a black dot on the terminal surfaces.



Chemistry (Main elements):

The chemical composition is subordinate to the mechanical properties and may vary depending on bar size and production flow parameters.

Element
Carbon
Silicon
Manganese
Phosphorous
Sulphur
Others/Alloying
Iron

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-700-2C	>20 mm - 60 mm	420	700	2
	>60 mm - 120 mm	400	700	2
	>120 mm - 400 mm	350	650	1

Reference: EN 16482:2014, Table 2

Brinell Hardness Range: 210-305 HB measured as an average of the center and the rim area of the bar (10 mm diameter ball).
(Informative)

Microstructure: Nodular graphite. The matrix structure is approx. 70% or more pearlitic and may contain minor quantities of free carbides.
(Informative)

Heat Treat Response: Tasso EN-GJS-700-2C can be hardened.

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