

# GREY IRON 2P

Colour Code

Blue

## Typical Mechanical Properties

Material Grade	Material Section	Anticipated Tensile Values N/mm <sup>2</sup>	Hardness(BHN)	Matrix
2P-300C EN 16482 ENGJL-300C	20 < D ≤ 50	220	190-260	Predominantly Pearlitic
	50 < D ≤ 100	205		
	100 < D ≤ 200	195		
	200 < D ≤ 400			
Stocked Sizes	Round Sizes From 25 - 700 MM dia. Not all sizes are stocked in Australia but they are available on mill order Flat Sizes Available on mill order from Europe			

**A grey cast iron exhibiting good strength and wear resistance**

## Typical Composition

	Min. %	Max. %
Carbon	2.95	3.45
Silicon	2.10	2.90
Manganese	0.55	0.75
Sulphur	0.04	0.07
Phosphorous	0.10	0.20
Iron	balance	

**Brinell Hardness (BHN)** Test 10mm dia Ball 3000Kg load depending on section size. Hardness readings are taken across the entire section of the bar. Hardness values for rectangles depend on the ratio of height to width and can be supplied upon request.

**Microstructure** Contains type 'A' graphite flakes in accordance with ISO 945. The rim zone contains fine types 'D' and 'E' interdendritic graphite. The core matrix is greater than 90% pearlite. The rim matrix is a ferrite/ pearlite mixture. The rim may contain up to 5% dispersed fine carbides.

**Heat Response** Heat Treat Response: 2P - 300C is suitable for all conventional methods of heat treatment, with hardness levels of up to HRc 50 achievable.

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