



# Black Hawk Metals

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*The preferred supplier of*

*Brass, Bronze, Cast iron & Copper.*

## Letter of Conformance

### *Ductile Cast Iron – FCD450*

*Our material has been manufactured, tested & inspected, and is in compliance with FCD-450 as specified below*

<b>TYPICAL CHEMICAL COMPOSITION %</b>	
Element	Nominal
Carbon (C)	3.2 - 3.7
Silicon (Si)	2.3 - 3.1
Manganese (Mn)	0.4
Phosphor (P)	0.07
Sulphur (S)	0.02
Iron Balance	0.02

### Typical Mechanical Properties

	< 120mm Dia	>120mm Dia
Ultimate Tensile Strength	450 MPa	400 Mpa
Elongation	10 %	8%
Typical Hardness	160 – 210 BHN	
Machinability	Excellent	

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