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MATERIAL DATA SHEET - PBD450

DUCTILE CAST IRON TO JIS FCD450

Commonly known as:- 3D; 65-45-12

Typical Applications:-. Items requiring resistance to corrosion and thermal and mechanical shock in marine, automotive, hydraulics pump bodies, glands, moulds, gears, sprockets, impellors and rotors.

Chemical Composition %

Carbon	С	3.2 - 3.9
Silicon	Si	2.2 – 3.2
Manganese	Mn	0.1 - 0.4
Phosphor	Р	<u>≤</u> 0.1
Sulphur	Si	<u><</u> 0.03
Iron	Fe	Balance

Mechanical Properties -	<u><</u> 150mm Dia	<u>></u> 150mm Dia
MPA Tensile Strength	420 MPA	400MPA
Elongation	<u>></u> 12 %	<u>></u> 8%
Typical Hardness	140 – 200 HB	
Machinability	Excellent	
Yield Strength	<u>></u> 310	

Similar Specifications:- AS 1831-1985 400-250-12; BS 2789 SNG 27/12; ASTM A.536 65-45-12; DIN 1693 GGG40;

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