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MATERIAL DATA SHEET

GREY CAST IRON

Commonly known as:- 4E, Grade 250

Typical Applications:- General purpose cast iron which has good strength and wear resistance and performs well under pressure making it useful for cylinder liners, pistons, glands, piston rings, pulleys, cams, slide rails, manifolds.

Chemical Composition %

Element		Nominal
Carbon	C	3.0 – 3.6
Silicon	Si	2.2 – 3.2
Manganese	Mn	0.5 – 0.8
Phosphor	P	0.10 max
Sulphur	S	0.08 max
Iron	Fe	Balance

Mechanical Properties (typical)

Ultimate Tensile Strength	220- 260 MPa
Compressive Strength	800 – 1000 MPa
Hardness	190 - 240 BHN
Machinability	Very Good

Similar Specifications:- AS 1830-T260; BS 1452 Grade 17; ASTM A48;
DIN 1691 GG35; JIS FC250; USA Class 35/40;

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