

## MATERIAL DATA SHEET – PBG250

### GREY CAST IRON TO JIS FC250

**Commonly known as:-** 4E, 2P, 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 %

Carbon	c	2.8-3.8
Silicon	Si	2.2-2.6
Manganese	Mn	0.5-0.8
Phosphor	P	≤ 0.15
Sulphur	Si	≤ 0.12
Iron	Fe	Balance

#### Mechanical Properties

MPA Tensile Strength	>220 MPA
Yield Strength	> 150
Typical Hardness	170 – 220 BHN
Machinability	Very Good

**Similar Specifications:-** AS 1830-T260; BS 1452 Grade 17; ASTM A48; DIN 1691 GG35; USA #35.