

# CT1, PB3 AS-1565 Grade C90250 (PHOS BRONZE)

SAND AND CHILL CASTINGS



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## ABOUT

CT1, for corrosion resistant castings where attack from sea water and weaker acids.

## EQUIVALENT TO

Britain BS1400 PB3, CT1  
USA  
Japan  
Germany

## NOMINAL CHEMICAL ANALYSIS

CHEMICAL COMPOSITION (Maximum % Unless Otherwise Listed)									OTHER ELEMENTS (*NOTES)
Copper Cu	Tin Sn	Zinc Zn	Nickel Ni	Lead Pb	Phos P	Alum Al	Iron Fe	Mang Mn	
89.0- 91.0	9.2- 11.0	0.05	0.25	0.25	0.05	0.01	0.25	0.20	*Cu min may include Ni

TENSILE (MPa)		ELONGATION (5-65/50% MIN.)		.2% PROOF (MPa)		HARDNESS (HB)	
Sand Cast	Chill Cast	Sand Cast	Chill Cast	Sand Cast	Chill Cast	Sand Cast	Chill Cast
230	270	6	5	130	140	70	90

Compressive Strength 0.1% Permanent Set	130 MPa
Specific Gravity	8.8
Machinability Rating (Free Machining Brass=100)	30
Max. Operating Temperature	250oC (482oF)
Stress Relieving Temperature	260oC (500oF)
Time at Temperature	1 hour per 25mm of section thickness

## APPLICATIONS

- Bushes and Bearings
- Impellers
- Pump & Valve Components
- Irrigation Parts
- Agricultural Parts