

SILICON BRONZE AS-1565 Grade C87300

SAND CASTINGS



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ABOUT

Silicon Bronze mainly used for architectural pieces. Friction resistant bronze. Excellent Corrosion properties. Produces smooth cast surface finish.

EQUIVALENT TO

Britain
USA
Japan
Germany

NOMINAL CHEMICAL ANALYSIS

CHEMICAL COMPOSITION (Maximum % Unless Otherwise Listed)									OTHER ELEMENTS (*NOTES)
Copper Cu	Silicon Si	Zinc Zn	Nickel Ni	Lead Pb	Phos P	Alum Al	Iron Fe	Mang Mn	
94 min	3.50- 4.50	0.25		0.20		0.50- 1.50	0.20	0.08- 1.50	

MECHANICAL PROPERTIES / Typical

TENSILE (MPa)		ELONGATION (5-65/50% MIN.)		.2% PROOF (MPa)		HARDNESS RB	
Sand Cast		Sand Cast		Sand Cast		Sand Cast	
380		30		170		85	

Compressive Strength 0.1% Permanent Set	130 MPa
Specific Gravity	8.33
Machinability Rating (Free Machining Brass=100)	26
Max. Operating Temperature	250 (482 F)
Stress Relieving Temperature	260oC (500oF)
Time at Temperature	1 hour per 25mm of section thickness

APPLICATIONS

- Architectural pieces
- Statues , Plaques
- Marine Components