GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SB-505 C83800

Standard Specification for Copper Alloy Continuous Casting

Group - Non-Ferrous Copper Alloy

Sub Group - ASME SB-505 Copper Alloy Continuous Casting

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Casting

Chemical Composition		
Aluminium	Al %	0.005 max.
Iron	Fe %	0.300 max.
Ni + Co	Ni% + Co%	1.000 max.
Phosphorus	P %	1.500 max.
Lead	Pb %	5.000 - 7.000
Sulphur	S %	0.080 max.
Antimony	Sb %	0.250 max.
Silicon	Si %	0.005 max.
Tin	Sn %	3.300 - 4.200
Zinc	Zn %	5.000 - 8.000
Copper	Cu %	82.000 - 83.800
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	207 min.
Yield Strength in Mpa	97 min.
Elongation in %	16 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
C83800	UNS	USA	Rod, Bar, Tube and Shapes
C83800	SAE	USA	Casting
B145-4B	ASTM	USA	Casting
B30 C83800	ASTM	USA	Casting
B505 C83800	ASTM	USA	Casting
CA838	SAE	USA	Casting
B584 C83800	ASTM	USA	Casting

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com