



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM B505 Nickel-Aluminium Bronze UNS C95520

Standard Specification for Copper Alloy Continuous Casting

Group - Non-Ferrous Copper Alloy

Sub Group - ASTM B505 / 505M Copper Alloys for Continuous Casting

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

Grade Belongs to the Industry - Rod, Bar, Tube and Shapes

Chemical Composition			Heat Treatment	
Tin	Sn %	0.250 max.	As-Cast or Solution Annealing or Annealing	
Lead	Pb %	0.030 max.		
Zinc	Zn %	0.300 max.		
Ni + Cu	Ni% + Cu%	4.200 - 6.000		
Iron	Fe %	4.000 - 5.500		
Manganese	Mn %	1.500 max.		
Aluminium	Al %	10.000 - 11.500		
Copper	Cu %	74.500 min.		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	862 min.
			Yield Strength in Mpa	655 min.
			Elongation in %	8 min.
			Reduction of Area in %	-
			Hardness in BHN	262 min.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B30 C95520	ASTM	USA	Ingot and Casting
B271 C95520	ASTM	USA	Casting
B505 C95520	ASTM	USA	Casting
SB-148 C95520	ASME	USA	Casting
78Cu-11Al-5.1Ni-4.8Fe	SAE	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS