# Material - ASTM B271 Nickel Alumium Bronze UNS C95520

**Standard Specification for Copper-Base Alloy Centrifugal Castings**

**Group - Non-Ferrous Copper Alloy**

**Sub Group - ASTM B271 Copper-Base Alloy Centrifugal Castings**

**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 or Normalizing | |
| Lead | Pb % | 0.030 max. | | |
| Zinc | Zn % | 0.300 max. | | |
| Iron | Fe % | 4.000 - 5.500 | | |
| Ni + Co | Ni% + Co% | 4.200 - 6.000 | | |
| Aluminium | Al % | 10.500 - 11.500 | | |
| Manganese | Mn % | 1.500 max. | | |
| Silicon | Si % | 0.150 max. | | |
| Copper | Cu % | 74.500 min. | **Mechanical Properties** | |
| - | - | - | Tensile Strength in Mpa | - |
| - | - | - | Yield Strength in Mpa | - |
| - | - | - | Elongation in % | - |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | 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**

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