



Material - ASTM B505 High-Strength Yellow Brass UNS C86300 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 % | 0.200 max. | As-Cast | |
| Lead | Pb % | 0.200 max. | | |
| Zinc | Zn % | 22.000 - 28.000 | | |
| Ni + Cu | Ni% + Cu% | 1.000 max. | | |
| Iron | Fe % | 2.000 - 4.000 | | |
| Aluminium | Al % | 5.000 - 7.500 | | |
| Manganese | Mn % | 2.500 - 5.000 | | |
| Copper | Cu % | 60.000 - 66.000 | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| | | | Mechanical Properties | |
| | | | Tensile Strength in Mpa | 758 min. |
| | | | Yield Strength in Mpa | 427 min. |
| | | | Elongation in % | 14 min. |
| | | | Reduction of Area in % | - |
| | | | Hardness in BHN | - |
| | | | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|-----------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| B271 C86300 | ASTM | USA | Casting |
| B30 C86300 | ASTM | USA | Ingot and Casting |
| CA863 | SAE | USA | Casting |
| SAE 430B | SAE | USA | Casting |
| SB-505 C86300 | ASME | USA | Casting |
| SB-584 C86300 | ASME | USA | Casting |
| C86300 | AS | Australia | 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.