GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - SAE J 463 UNS C14500

## Standard Specification for Wrough Copper and Copper Alloys

**Group - Non-Ferrous Copper Alloys**

**Sub Group - SAE J 463 UNS C14500 Wrough Copper and Copper Alloys**

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

**Grade Belongs to the Industry - Sheet, Strip, Bar, Plate, Rod, Wire, Tube and Shapes**

| Chemical Composition | | |
|---|---|---|
| Phosphorus | P % | 0.004 - 0.012 |
| Tellurium | Te % | 0.400 - 0.600 |
| Copper | Cu % | 99.900 min. |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Raw or Annealing or Hardening |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 260 min. |
| Yield Strength in Mpa | 205 min. |
| Elongation in % | 12 min. |
| Reduction of Area in % | - |
| Hardness in HRB | - |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| C14500 | UNS | USA | Sheet, Strip, Bar, Plate, Rod, Wire, Tube and Shapes |
| B 142 UNS C14500 | ASTM | USA | Rod, Bar and Shapes |
| B 301 UNS C14500 | ASTM | USA | Rod, Bar, Wire and Shapes |
| B 283 UNS C14500 | ASTM | USA | Forging |
| B 124 C14500 | ASTM | USA | Rod, Bars and Shapes |
| 12164 CW118C | EN | European Union | Rods |
| SB-283 UNS C14500 | ASME | USA | Forging |

**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.