

C83400

Material

Notes: Casting methods recommended for this alloy: Centrifugal and Sand.

Applications: Moderate strength, moderate conductivity castings; rotating bands.

Classified under: Red Brasses and leaded red brasses

As cast values below are for sand casting. Alloy does not respond to heat treating

| Physical Properties | Metric | English | Comments |
|--------------------------------------|---------------|--------------------------|--|
| Density | 8.77 g/cc | 0.317 lb/in ³ | Estimated |
| Mechanical Properties | Metric | English | Comments |
| Hardness, Rockwell F | 50 | 50 | |
| Tensile Strength, Ultimate | 241 MPa | 35000 psi | as cast |
| Tensile Strength, Yield | 69.0 MPa | 10000 psi | as cast |
| Elongation at Break | 30 % | 30 % | as cast |
| Machinability | 60 % | 60 % | UNS C36000 (free-cutting brass) = 100% |
| Component Elements Properties | Metric | English | Comments |
| Copper, Cu | >= 90 % | >= 90 % | |
| Zinc, Zn | 10 % | 10 % | |