

# C83400

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**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

<b>Physical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Density	8.77 g/cc	0.317 lb/in <sup>3</sup>	Estimated
<b>Mechanical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
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%
<b>Component Elements Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Copper, Cu	>= 90 %	>= 90 %	
Zinc, Zn	10 %	10 %	