C36000 Free Cutting Brass

Common Name:

C36000
High leaded brass
SAE 72, AMS 4610
JIS H3250 C3604
Alloy C360

Typical Chemical Analysis:

Copper (Cu) : >58.0%
Iron (Fe): 0.33% - 0.35%
Tin (Sn): 0.38% - 0.40%
Nickel (Ni): 0.15% - 0.16%
Lead (Pb): 2.93% - 2.95%
Antimony (Sb): 0.003% - 0.005%
Zinc (Zn): Remaining

Typical Physical Properties:

Hardness (HB): 140Min.
Tensile Strength: 338 Min.
Elongation: 53% Min.
Machining rating* (%): 100

Fabrication Practices:

Joining /solderability: Joining by soft soldering is excellent
Resistance wielding: Not recommended
Brazing: Silver alloy brazing
Oxyacetylene wielding: Fair
ARC wielding: Not recommended

Background:

C36000 Free-Machining Brass is ideally suited for high speed machining operations with its superior machinability, thread rolling and knurling characteristics. Its machinability rating of 100 is a standard set against which all other copper alloys are rated.

Usage:

Hardware, gears and pinions; automatic high speed screw-machined part