

C36300

Copper - Lead - Zinc Alloy

As one of the low lead alloys offered in the EcoStream™ family of products, Mueller Brass Company's **C36300** alloy provides a viable alternative to those manufacturers who are manufacturing products and components that require compliance with the recently approved **"Reduction of Lead in Drinking Water Act."** The legislation re-defines the term "lead free" to mean "... no more than a weighted average of 0.25% lead when used with respect to the wetted surfaces of pipes, plumbing fittings and fixtures."

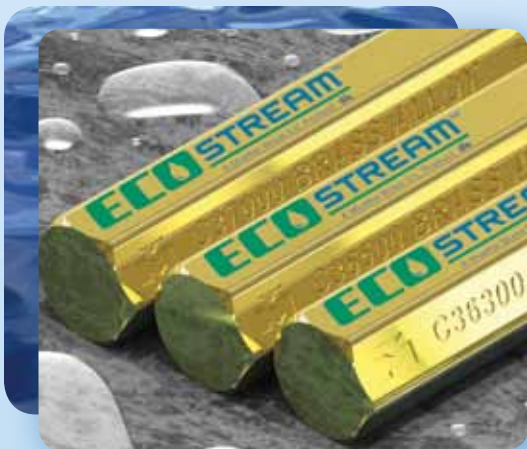
No Silicon – No Bismuth – No Segregation

Mueller Brass Company's **C36300** alloy provides a lower lead brass alloy option that aids with the compliance strategies of manufacturers who seek an alternative that is not only **COMPLIANT**, but also **COMPETITIVE** and **COMPATIBLE** with standard free cutting and forgings alloys commonly used today.

Having significantly less copper than alternative alloys offered by other manufacturers, and not displacing the lead with potentially detrimental additives like **bismuth** or **silicon**, **C36300** is a competitive solution that affords compliance while maintaining critical aspects of productivity and efficiencies.

The turnings, chips and other resulting scrap generated from **C36300** is completely compatible with the free cutting (i.e. C36000) and forging alloys (C37700) used industry wide. By virtually eliminating the necessity to segregate, clean out machines, or potentially risk contaminating 'conventional' scrap, valuable machine time is further maximized.

C36300 - Another practical solution in the **EcoStream™** family of products.



Advantages:

- Excellent machineability
- Good hot forgability
- Excellent capability for brazing and plating
- Excellent ability to thread rolled
- Improved resistance to dezincification

Applications:

- Screw machine parts and components for potable water products requiring lead free compliance
- Forged parts and components for potable water products requiring lead free compliance

For More Information:

Please contact your local sales representative or Mueller Brass Company for more information.



Technical Information

Chemistry:

Cu	Pb	Fe	P	Zn
61.0 ~ 63.0	0.25 ~ 0.70	0.15 (max)	0.04 ~ 0.15	Rem

Typical Mechanical Properties:

Rod H02	Tensile Strength (ksi)	Yield Strength (ksi)	Elongation (%)	Hardness (Rb)
1/2" to 1" diameter	65	45	20%	75
1" diameter	60	40	30%	70

Size and Shape Range:

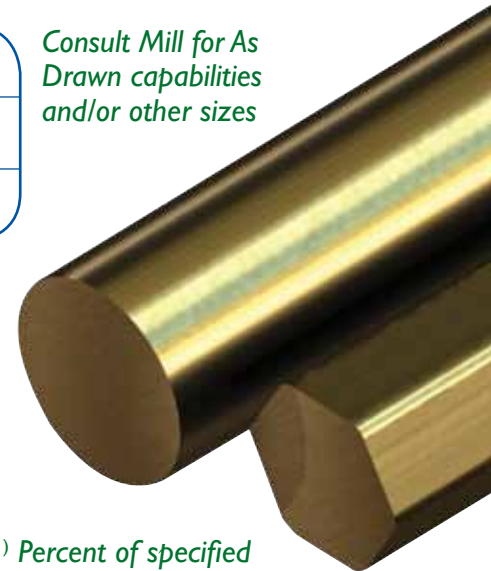
Rounds	0.250 inches ~ 4.000 inches
Hexagons	0.250 inches ~ 3.500 inches
Squares	0.375 inches ~ 3.000 inches

Consult Mill for As Drawn capabilities and/or other sizes

Diameter Tolerances:

	Rounds	Hexagons
0.250" to 0.375" (inclusive)	+/- 0.002"	+/- 0.004"
0.375" to 0.500" (inclusive)	+/- 0.002"	+/- 0.004"
0.500" to 1.000" (inclusive)	+/- 0.003"	+/- 0.005"
1.000" to 2.000" (inclusive)	+/- 0.004"	+/- 0.006"

⁽¹⁾ Percent of specified diameter or distance between parallel surfaces expressed to the nearest 0.001"



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