

C37000

Free Cutting Muntz Metal

As one of the low lead alloys offered in the EcoStream™ family of products, Mueller Brass Company's **C37000** 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 that a weighted average of 0.25% lead when used with respect to the wetted surfaces of pipes, plumbing fittings and fixtures."

With this in mind, Mueller Brass Company's **C37000** alloy provides a low lead alloy that aids in the compliance to this legislation, while maintaining machinability ratings and forging performance near that of conventional free cutting and forging alloys.

No Silicon • No Bismuth • No Segregation

In addition to machinability ratings near that of free cutting brass, **C37000** also possesses the virtues and merits of Mueller Brass Company's other EcoStream™ Lead Free and Low Lead alloys. Since no contaminating additives like **bismuth** or **silicon** are used in the production of this alloy, **C37000** is completely recyclable with conventional brass alloys still widely being used for non-potable plumbing and industrial applications. As a result, there is no need to segregate scrap, no incurred downtime for machine clean-outs, and higher production efficiency and through-put.



Advantages:

- Good machineability
- Excellent hot forgability
- Excellent capability for brazing and plating
- Excellent ability to thread rolled
- Completely recyclable

Applications:

- Screw machine parts and components requiring lower lead content
- Forged parts and components for LEAD FREE applications and products

For More Information:

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



Technical Information

Chemistry:

Cu	Pb	Fe	Zn
59.0 ~ 62.0	0.8 ~ 1.5	0.15 (max)	Rem

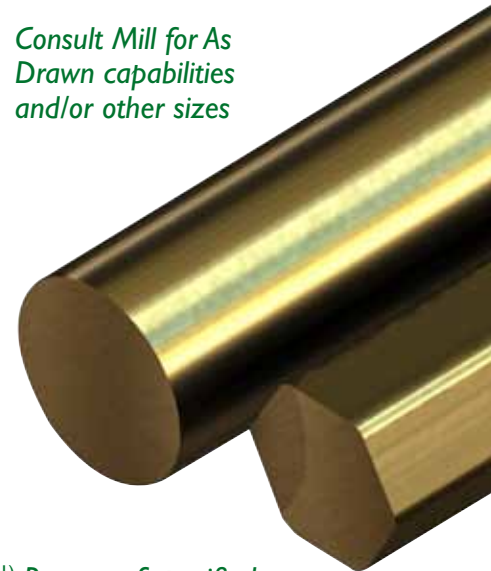
Typical Mechanical Properties:

Rod H02	Tensile Strength (ksi)	Yield Strength (ksi)	Elongation (%)	Hardness (Rb)
	65	45	30%	75

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:

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"
> 2.000"	0.20 ⁽¹⁾	0.30 ⁽¹⁾

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

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