



ECOSTREAM™
ALLOYS AND PRODUCTS

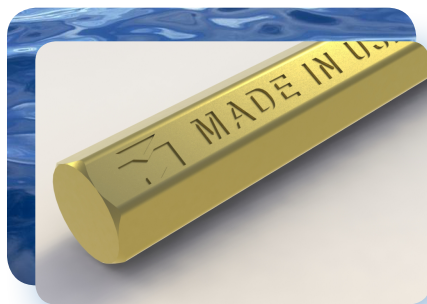
In continuing in its long standing tradition of product excellence and industry innovation, Mueller Brass Company is pleased to introduce its EcoStream™ family of alloys and products.

Available in rod, bar and hot forgings; Mueller Brass Company's EcoStream™ products are a compilation of new and existing alloys and products developed and chosen to provide manufacturers practical options and solutions for their lead free compliance strategies.

No Silicon • No Bismuth • No Problems

The EcoStream™ family of products carefully finds a balance between lead free compliance strategies and the prevailing necessity of remaining competitive and maintaining productivity. As opposed to other lead free or low lead alternatives; Mueller Brass Company has taken a more customer-centric approach when it developed its lead free alloys and assembled the EcoStream™ family of products. Instead of simply replacing the lead with potentially detrimental contaminants like silicon and bismuth; Mueller Brass Company identified with manufacturers' needs for compatible alloys that not only aid in their pursuit of regulatory compliance of their products, but also can easily coexist with existing alloys (i.e. C36000, C37700, C34500, etc.). Since the scrap generated from EcoStream™ alloys and hot forgings are completely compatible with existing alloys, manufacturers need not worry about segregating scrap, contaminated loads of brass turnings, or lost machine time attributed to machine clean out.

Mueller Brass Company's EcoStream™ alloys and products also addresses post production concerns sometimes associated with other lead free alternative alloys. Concerns such as cracking of finished parts, difficulties in plating and brazing, and difficulties of rolling of threads are virtually eliminated by using EcoStream™ alloys over other alloys.



Advantages:

- Good machineability
- Excellent forgeability
- Excellent ability to Thread Roll
- Excellent Brazing & Plating
- Dezincification Resistant

Applications:

- Potable water components, fixtures & applications
- PEX plumbing applications & systems
- Forged products requiring lead free &/or dezincification compliance



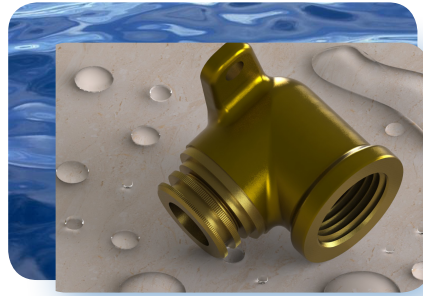
Additional Resources:

Mueller Brass Company has developed two resources that will aid manufacturers, integrate & optimize efficiencies when converting to **GreenDrop™ C27450 Lead Free Brass** alloy:

- **Machining Reference Guide**
- **Trouble Shooting Guide**

Please contact Mueller Brass Company's Inside Sales or your local territory representative for more information.

Alloys & Products



EcoStream™ Lead Free and Low Lead Alloys

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|--------|---|--|---|
| C27450 | GreenDrop™ Lead Free Plumbing Brass | Cu: 60.0 ~ 65.0 / Pb: 0.25(max) / Fe: 0.35(max) / Zn: Rem | Machining, Hot Forging |
| C27451 | GreenDrop™DZR Lead Free Plumbing Brass | Cu: 61.0 ~ 65.0 / Pb: 0.25(max) / Fe: 0.35(max) / P: 0.05 ~ 0.20 / Zn: Rem | Machining, Hot Forging, Dezincification Resistance |
| C36300 | Copper - Zinc - Lead Alloy | Cu: 61.0 ~ 63.0 / Pb: 0.25 ~ 0.70 / Fe: 0.15(max) / P: 0.04 ~ 0.15 / Zn: Rem | Machining, Hot Forging |
| C37000 | Free Cutting Muntz Metal | Cu: 59.0 ~ 62.0 / Pb: 0.8 ~ 1.5 / Fe: 0.15(max) / Zn: Rem | Machining, Hot Forging |



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