



CHASE BRASS AND COPPER COMPANY, LLC

14-212 County Road M-50, Montpelier, Ohio 43543



GREEN DOT™ Rod

An Eco Brass® Alloy



A MACHINABLE LEAD-FREE BRASS ROD AVAILABLE FROM CHASE BRASS

AUTHORIZED GREEN DOT DISTRIBUTOR

SEEGER METALS AND PLASTICS, INC.

1315 E. Manhattan Blvd.
Toledo, Ohio 43608

PH: 1-800-472-0112
www.seegerinc.com

To compliment our world-class Blue Dot leaded brass rod, Chase Brass delivers the perfect alternative for customers looking for eco-friendly lead-free brass rod and forgings.

Our company has obtained the exclusive rights to sell, produce and distribute Green Dot Rod (An Eco Brass® Alloy) and Eco Brass Ingot, in the United States, Canada, and Mexico. Chase selected this product because it meets the needs of many of our customers who require lead-free products combining good machinability and excellent corrosion resistance characteristics. When your application calls for a lead-free, high strength raw material, consider Green Dot Rod.

GREEN DOT ROD APPLICATIONS:

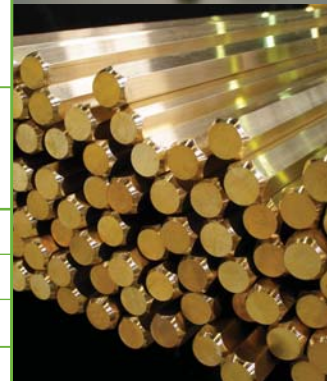
- Drinking water fixtures and fittings
- PEX plumbing systems
- Fire protection devices
- Automotive parts: lead-free requirements
- European electrical/electronic parts
- Substitute for free-machining stainless steel

GREEN DOT ROD ADVANTAGES:

- Lead-free
- Good machinability
- Excellent dezincification corrosion resistance
- Excellent stress corrosion cracking resistance
- High strength equivalent to stainless steel
- Excellent polishing and plating capabilities
- Solders and brazes with standard materials
- Excellent hot forgeability
- Antimicrobial properties

TYPICAL MECHANICAL PROPERTIES FOR HALF HARD TEMPER ROD.

Rod Diameter	Tensile Strength (ksi)	Yield Strength (ksi)	Elong. (%)	Hardness (Rb Scale)
0.500	98	52	22	92
1.000	96	52	36	89
2.000	90	46	31	86



Alloy	Application	ASTM	Copper	Silicon	Phosphorus	Zinc
C69300	Machining	B124, B283, B371	76.0	3.0	0.10	Remainder

ROD LENGTHS, BUNDLES & SIZE RANGES

	Lengths	Bundle Weights
English	12 foot	1,000 lbs.
Metric	3.6 meters	454 kgs.



English
0.375" – 2.500"
Metric
95mm – 63.5mm



English
0.437" – 2.000"
Metric
11.1mm – 50.8mm



Consult Mill

For More Information Call Toll Free: 1-800-537-4291 – www.chasebrass.com



ECO BRASS® Partners

ECO BRASS CASTING ADVANTAGES:

- Lead-free
- Good machinability
- Excellent stress corrosion cracking resistance
- Good castability
- Excellent dezincification resistance
- Plentiful supply of raw materials

POTENTIAL ECO BRASS CASTING APPLICATIONS:

- Drinking water applications
- Plumbing and water handling
- Fire suppression
- Water meter bodies
- Automotive parts required to meet lead-free specifications



Ingot Metal Company Limited

111 Fenmar Drive, Weston, Ontario Canada M9L 1M3
 1-800-567-7774 • Fax 416-749-1371
www.ingot.ca

California Metal-X

366 East 58th Street, Los Angeles, California 90011
 1-888-CMETALX • 323-234-9281 • Fax 323-234-0814
www.cmxmetals.com

ECO BRASS INGOT DELIVERS PERFORMANCE

Eco Brass ingot provides the best alternative for lead-free casting applications requiring high strength and corrosion resistance while maintaining good machinability.

Eco Brass ingot (ASTM B30) offers casting manufacturers several advantages compared to both leaded and lead-free casting product alternatives.

- Eco Brass has a lower pouring temperature compared to standard leaded brasses
- A shortened solidification range makes it less prone to dispersed microporosity
- The silicon content in the alloy and the low melting temperature result in reduced dross formation and fuming.
- The phosphorus addition gives Eco Brass excellent fluidity for replication of details

TYPICAL MECHANICAL PROPERTIES (ASTM B584, B806)

Casting Method	Tensile Strength (ksi)	Yield Strength (ksi)	Elong. (%)
Sand	59	22	16
Permanent Mold	64	32	16

Concast Metal Products

PO Box 816, Myoma Road, Mars, PA 16046
 1-800-626-7071 • Fax 724-538-3956
 14315 St. Rt. 113, Birmingham, OH 44816
 1-800-288-7856 • Fax 440-965-4225
www.concast.com
www.greenalloys.com

Concast Metal Products Company manufactures Eco Brass continuous cast rod, bar and hollow bar. Their vertical casting facility is in Mars, PA, and their horizontal casting facility is in Birmingham, OH.

Mill Capabilities

- Ability to cast near net shapes
- Continuous cast rod sizes 1/2" – 12"
- Hollow bar
- 6' up to 12' lengths (other lengths available upon request)
- Centerless grinding available

TYPICAL MECHANICAL PROPERTIES (ASTM B505)

Size (in.)	Tensile Strength (ksi)	Yield Strength (ksi)	Elong. (%)
0.750" RD	75	35	10
2.000" RD	68	30	15
2" OD x 1" ID	68	35	11

CHEMICAL AND PHYSICAL PROPERTIES (ASTM B30)

Alloy	Copper	Silicon	Phosphorus	Zinc	Liquidus Temp. (F)	Solidification Range (F)	Density (lb./cu. in)	% Machinability (CDA)
C87850	76.0	3.0	0.12	21	1616	45	0.300	70