

EnviroBrass Technical Articles

Overview Articles/Brochures

1. Bismuth-Modified Cast Red Brasses to Meet U.S. Drinking Water Standards
2. Alloy Data Sheet for SeBiLOY – Low Lead Red Brass Casting Alloys C89510 and 89520
3. I'll Drink to that! Ad for the CDA and Ingot Manufacturers
4. New Bismuth/Selenium Red Brass Alloys Solve Lead Concerns
5. Bismuth in Copper and Copper base alloys: A Literature Review
6. Use of Selenium in Free Machining Plumbing Brass
7. ASARCO Bismuth Selenide
8. SeBiLOYS Replace Leaded Brasses
9. The Role of Selenium in new Free Machining Brass
10. Some Facts About Bismuth, Bismuth Triselenide, SeBiLOY, and Selenium
11. A Review of Bismuth and Selenium Modified Copper Alloys for Plumbing Applications
12. Modified Red Brass with Bismuth: A Literature Review
13. Bismuth Selenide Fact Sheet
14. Selenium's Role in New Free-Machining Brass Alloys
15. New Bismuth/Selenium Red Brass Alloys Solve Lead Concerns
16. Lead-Free and Reduced-Lead Copper-Base Cast Plumbing Alloys: Evaluation of Candidate U.S. Compositions
17. A Feasibility Study of the Production of Free-Machining Brass without Lead
18. Modified Red Brass with Bismuth and Selenium-Phase I, Final Report, AFS Research
19. Modified Red Brass with Bismuth – A Literature Review and Analysis

Corrosion Behavior

1. Corrosion Behavior of Sand-Cast Red Brass Containing Bi and Se
2. Corrosion Behavior of SeBiLOY III (C89550) and Leaded Yellow Brass (C85800)
3. A Review of Bismuth and Selenium Modified Copper Alloys for Plumbing Applications
4. Lead-Free and Reduced-Lead Copper-Base Cast Plumbing Alloys: Evaluation of Candidate U.S. Compositions

Casting Aspects

1. Fluidity of Bismuth and Selenium-Modified Red Brass
2. Casting Trials of Red Brass Containing Bismuth and Selenium at Gamma Foundries Limited
3. Permanent Mold Casting of SeBiLOY III (C89550)
4. Grain Refinement Studies on Permanent Mold Cast SeBiLOY III
5. Grain Refinement of Bi/Se-Modified Red Brass
6. Casting Characteristic of Machinable Lead-Free Copper-Graphite Alloys
7. The Hot Tearing of Copper Alloys
8. Casting Characteristics of Red Brass Containing Bismuth and Selenium
9. Casting Characteristics and Mechanical Properties of Bi/Se-Modified Yellow Brass (SeBiLOY III)
10. Prototyping of Some Copper Alloy Plumbing Components by Gravity and Low-Pressure Permanent Mold Casting Process
11. New Bismuth/Selenium Red Brass Alloys Solve Lead Concerns
12. Modified Red Brass With Bismuth and Selenium – Phase II, Final Report, AFS Research
13. Permanent Mold Casting of Copper-Base Alloys – Phase IV. Final Report MTL 97-1(TR-R)
14. Permanent Mold Casting of Copper-Base Alloys – Phase VII. Final Report MTL 98-6(TR-R)

Mechanical Properties

1. Mechanical Properties of a New Copper Alloy (SeBiLOY I)
2. Mechanical Properties of a New Copper Alloy (SeBiLOY II)
3. A Detailed Analysis of the Mechanical Properties of SeBiLOY I & II
4. Casting Characteristics and Mechanical Properties of Bi/Se-Modified Yellow Brass (SeBiLOY III) in Permanent Molds
5. Mechanical Properties of SeBiLOYs I & II
6. The Role of Selenium in new Free-Machining Brass
7. Lead-Free and Reduced-Lead Copper-Base Cast Plumbing Alloys: Evaluation of Candidate U.S. Compositions
8. A Feasibility Study of the Production of Free-Machining Brass without Lead
9. A Feasibility Study of the Production of Free-Machining Brass without Lead – Phase II
10. Brass Alloys Used in the Manufacture of Water Fixtures – UNS numbers and mechanical properties sheet

Bismuth, Selenium, NSF 61, & Calif. Prop 65

1. Has California Got a Proposition for You: The Pitfalls of Proposition 65 Compliance
2. Effects of Selenium Supplementation for Cancer Prevention in Patients with Carcinoma of the Skin
3. Dietary Selenium: Time to Act, in the *British Medical Journal*
4. Selenium in Food and Health
5. STDA Bulletin: Selenium vs. Cancer
6. Selenium's Role in New Free-Machining Brass Alloys
7. Method for Making Machinable Lead-Free Copper Alloys with Additive
8. Industry gets the Lead out of Brass Casting Alloys
9. Selenium and Cancer Prevention – Promising Results Indicate Further Trials Required
10. The China Connection
11. Environmentally Friendly Permanent Mold Casting