



ASM International



The Manitoba Chapter

BULLETIN

Thursday, May 28, 2009

Facility Tour

The Royal Canadian Mint

The Mint has the capacity to produce over 4 billion circulation coins or blanks per year for Canadian and foreign governments. The products we offer also include dies, die coatings, master punches and tooling, plus roll and wrap and other coin packaging.

The world's best plated coin: The Royal Canadian Mint's patented coin plating technology helps minimize coin cost for foreign governments. In addition, it offers superior quality, durability and electromagnetic signature (EMS) readability for better long-term performance compared to conventional alloys and other plating alternatives.

* **Benefits:**

- o Unique EMS that differs from other plated materials
- o Ability to match any existing EMS
- o Lower cost than the traditional copper and nickel alloy -based materials
- o Improved durability from improved material coverage on the coin's wear area
- o Responds to advances in automated vending technology
- o Environmentally friendly cyanide-free process

Imagination and excellence: The Royal Canadian Mint provides its proven expertise to foreign markets to develop, produce, package and market custom commemorative coins.

The tour: Blanking, Plating Plant, Coining and Packaging Areas will be toured.

Instructions & Time: The tour will start at 6:30pm. Join us at 6:15pm for free donuts and coffee, compliments of ASM International The Manitoba Chapter. Please read about Mint's Metal Free Policy on page 4.

Location: 520 Lagimodiere Blvd.

Cost: Free

Registration: Required by Wednesday, May 27, 2008. Please phone Bogumil Kryniewska, at 254-8201 or send an e-mail to bkryniewska@shaw.ca to register.

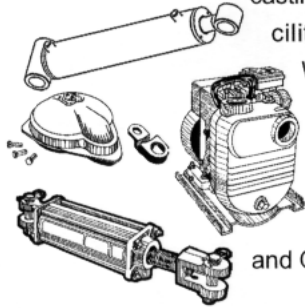


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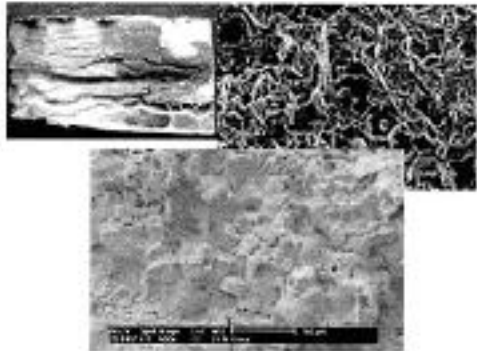
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Contact Ben Urbanietz, P.Eng, Education & MEI Chair, at 204-224-1654 for all of your ASM Training/Education needs.

Metal Free Policy

Effective January 1st, 2001 (January 7th, 2001 – Winnipeg)

The unique nature of the Mints business requires that a high level of security is maintained in all aspects of its business and that all employees are committed to maintaining the highest standards of security. In instituting policies to support those standards we are also committed to a fair and equitable approach; one which recognizes and embraces the concept of trust and integrity in our dealings with our employees.

Several discussions over the past several months have taken place amongst key stakeholders with respect to the provisions of the Memorandum of Agreement. (MOA) dated March 13th, 1995 dealing with metal infractions. This MOA remains in force and a part of the current collective agreement between the Royal Canadian Mint and the Public Service Alliance of Canada.

Provisions of the MOA with respect to security infractions related non-precious metal objects, and the removal of other non-consequential items (pens, keys, safety glasses) from the high security area, have led to disciplinary measures which are perceived as being inconsistent with the goal of improving the integrity of our security while maintaining sound employee relations practices.

In order for the security screening process to be meaningful and effective, and to further reduce risk in this area, it is necessary that immediate steps be taken to implement a total metal-free environment. This will mean that employees will be calibrated with items of jewellery, glasses, etc. to minimize risk. More importantly, these changes will result in eliminating many of the negative irritants for employees while improving the overall integrity of our metal detection systems.

- The Metal-Free Policy will apply to all employees. Contractors and visitors to the Royal Canadian Mint will also be subject to the policy to the extent to which it can be applied.

Contractors/Consultants

- Contractors and consultants will be required to sign documentation acknowledging that they are familiar with, and agree to RCM security requirements

Business Visitors

- Business visitors will be required to be as metal-free as possible and will at all times be escorted by a Mint employee.

Confidentiality Agreement

- Contractors, consultants and business visitors will be required to sign a confidentiality agreement before entering the high security area of the RCMint.

This is abbreviated version of Metal Free Policy. For the full version refer to attached file MetalFreePolicy.pdf.

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MATERIALS NEWS

Particle size analysis key to manipulation of aluminum nanoparticles for nanocomposites

Researchers at Nottingham Trent University in the UK are using the Zetasizer Nano ZS particle characterization system from Malvern Instruments in work that has demonstrated the predominantly electrostatic nature of protein-aluminium interactions. This advance brings science a step closer towards being able to build novel aluminium-composite materials using naturally occurring biological processes.

High-tech speed bump detects damage to Army vehicles

Researchers have developed a technology that detects damage to critical suspension components in military vehicles simply by driving over a speed bump like "diagnostic cleat" containing sensors. "Our aim is to save time and maintenance costs, but more importantly to reduce downtime by catching damage before it leads to failure in the field," said Douglas Adams, an associate professor of mechanical engineering and director of Purdue University's Center for Systems Integrity.

For the full articles please go to <http://asmcommunity.asminternational.org/portal/site/www/NewsArchive/>.

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ASM International:

ASM International is a society whose mission is to gather, process and disseminate technical information. ASM fosters the understanding and application of engineered materials and their research, design, reliable manufacture, use and economic and social benefits. This is accomplished via a unique global information-sharing network of interaction among members in forums and meetings, educational programs, and through publications and electronic media.

For more information about ASM and its benefits visit the official website at www.asminternational.org