



October 25, 2012

Edition: 31

**IMA Executive Committee:**

Karl Kainer	<a href="mailto:ima.magnesium@hzg.de">ima.magnesium@hzg.de</a>	Ronald Chang	<a href="mailto:c.j.chang@foxconn.com">c.j.chang@foxconn.com</a>
Guenter Franke	<a href="mailto:guenter.franke@magontec.com">guenter.franke@magontec.com</a>	Jan Guy	<a href="mailto:JGuy@amacor.us">JGuy@amacor.us</a>
Tom Heider	<a href="mailto:tomh@tcdcinc.com">tomh@tcdcinc.com</a>	Anthony LoCoco	<a href="mailto:tlococo@cwmtl.com">tlococo@cwmtl.com</a>
Joyce Mandel	<a href="mailto:jmandel@tso.net">jmandel@tso.net</a>	Walter Treiber	<a href="mailto:wtreiber@cwmtl.com">wtreiber@cwmtl.com</a>
Ken White	<a href="mailto:ken.white@magnesium-elektron.com">ken.white@magnesium-elektron.com</a>		

Below are articles and summaries of **magnesium** related stories. Members are asked to distribute the update to their employees – if their employees wish to receive the IMA Weekly Update, please send their email addresses to the IMA Head Office. We appreciate your company press releases and announcements for inclusion in the Weekly Update.

**INDUSTRY CALENDAR**

October 17, 2012

European Parliament Luncheon Debate on Critical Materials and REACH: Impact on Technological and Economic Development  
Brussels, Belgium

**October 30, 2012**

**IMA Magnesium Applications Seminar North America**  
Ypsilanti, Michigan, USA  
[www.IMAseminar.org](http://www.IMAseminar.org)

March 3 – 7, 2013

TMS 2013  
San Antonio, Texas, USA  
<http://www.tms.org/meetings/annual-13/AM13home.aspx>

**May 19 – 22, 2013**

**70th Annual IMA World Magnesium Conference (more details coming soon!)**  
Xi'an, China  
[www.IMAworldconference.org](http://www.IMAworldconference.org)

October 6 – 8, 2013

[5th Asian Symposium on Magnesium Alloys](#)  
Toki Messe  
Niigata, Japan

**Contact IMA**

**Mike Schultze, Deputy Executive Director**

E-mail: [mschultze@tso.net](mailto:mschultze@tso.net)

**Ann Scheible, Director Member Services**

E-mail: [ascheible@tso.net](mailto:ascheible@tso.net)

**IMA staff** can also be reached at:  
International Magnesium Association  
1000 N. Rand Road, Suite 214  
Wauconda, IL 60084 USA  
Tel: 847-526-2010; Fax: 847-526-3993

**E-mail:** [info@intlomag.org](mailto:info@intlomag.org)

**Website:** [www.intlomag.org](http://www.intlomag.org)

**Asian Director:** Shanel Tsai  
IMA Asia Representative Office  
7F No.12-2 Alley 658 Jinzhong Road  
Changning District  
Shanghai, China 200335  
Phone: +86 (21) 6402 2930  
Email : [shanel@intlomag.org.cn](mailto:shanel@intlomag.org.cn)

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## ASSOCIATION NEWS

IMA Announces the Magnesium Applications Seminar North America – **Last Week to Register!**

- **Added Bonus:** Guided Tour of Aristo Cast, Inc. Advanced Technology Center

IMA Announces the 70<sup>th</sup> Annual World Magnesium Conference – **2013 Call For Papers**

Please Join Us for the 70<sup>th</sup> Annual World Magnesium Conference in Xi'an, China

IMA Association News – The New IMA Members-Only “IMA News”

The IMA Invites You to Join Our LinkedIn Group

Articles follow below

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## INDUSTRY NEWS

**GM Tests Magnesium Sheet Metal to Take Weight Out of Cars**  
[www.newsdaily.com](http://www.newsdaily.com) (23-Oct-2012)

Article follows below

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## CHINA'S LATEST

**China Magnesium Industry Market Bulletin**  
[www.chinamagnesium.net](http://www.chinamagnesium.net) (28-Sep-2012)

Articles follow below

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*EDITOR'S NOTE: IMA makes every possible effort to substantiate the articles which appear in the Weekly Update. However, as this is not always possible IMA does not warrant the details nor accuracy of any given article. Please keep in mind that materials are attained through press releases, outside articles from numerous sources and publications. Such materials often contain opinions which are not that of the association nor should they be construed as such. We realize that in the case of some materials, the translations might often lead to less than perfect grammar, etc. It is our position however to print as submitted rather than take upon ourselves the editing of such materials which would entail potential changes unwanted by any given author.*

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## ASSOCIATION NEWS

### IMA Announces the Magnesium Applications Seminar North America – *Last Week to Register!*

The International Magnesium Association (IMA) is pleased to announce that it will again offer its Magnesium Applications Seminar North America to be held next Tuesday, October 30, 2012 at the Ann Arbor Marriott Ypsilanti at Eagle Crest in Ypsilanti, Michigan, USA. Online registration is open! You can access online registration as well as the Attendee and Exhibitor brochures and registration forms at [www.IMAseminar.org](http://www.IMAseminar.org).

Our newly elected IMA President, Prof. Dr. Karl Kainer, will be in attendance from Germany. He cordially invites members and non-members alike to attend.

[Please click here to view and download the Program Schedule.](#)

The Seminar topics include:

- \* Magnesium's carbon footprint
  - \* New alloy developments including Magnesium Matrix and Rare Earth
  - \* Magnesium wrought products
  - \* Practical and environmental considerations in gas cover selection
  - \* Magnesium alloys for power-train applications
  - \* Proving a conceptual use of magnesium with minimal investment
  - \* Design for end use project
  - \* Manufacturing technologies for more magnesium applications
  - \* Magnesium flammability mythology
  - \* Die casting technologies
  - \* Health and environmental safety
  - \* And more!
- ✓ Download the [Exhibitor Opportunity Brochure](#) to find out how you can get more involved. Space is filling up quickly so please submit your Commitment Form today!
  - ✓ Reserve your accommodations at the **Ann Arbor Marriott Ypsilanti at Eagle Crest.**

#### **\*\*\* Added Bonus: Guided Tour of Aristo Cast, Inc.'s Advanced Technology Center \*\*\***

The IMA is happy to announce that Mr. Jack Ziemba, CEO of Aristo Cast, Inc., a 2012 IMA Magnesium Applications Seminar speaker, has cordially invited all attendees and IMA members for a guided tour of their [Advanced Technology Center](#) on Monday, October 29 at 10:30 a.m. in Almont, Michigan.

Per Mr. Ziemba, "As Aristo Cast continues in our efforts to remain a leader in new methods, processing and technology, we have constructed our Advanced Technology Center (ATC). Along with the **magnesium** investment casting department the facility has the latest equipment to produce rapid prototype patterns used for Investment Casting. The machines you will see in operation include the latest offerings from various manufactures, each with their own unique capabilities. The ATC also houses equipment used to construct sophisticated wax injection molds made by our own in-house toolmakers. We also have HAAS Machining Centers that allow for in-house machining, rapid tooling and both prototype and production **magnesium** investment castings. I, on behalf of Aristo Cast, invite and welcome the seminar attendees and IMA members to join us on Monday, October 29. We look forward to introducing everyone to our facilities!"

Attendees will get see **magnesium** casting production in action! You can sign up today for this tour in addition to the seminar at **no extra cost.**

We hope you are able to take advantage of this very generous offer! [Click here to register today.](#)

## IMA Announces the 70<sup>th</sup> Annual World Magnesium Conference – *2013 Call For Papers*

The International Magnesium Association (IMA) has issued a Call for Papers in preparation for the 70th Annual World Magnesium Conference to be held May 19 – 23, 2012 in Xi'an, Shaanxi Province, China. Recognizing the global nature of the **magnesium** industry, IMA is seeking industry technical papers with an international perspective. Presentations at the annual event are expected to address topics related to new emerging and process technologies, automotive and non-automotive applications, finishing and joining, environmental considerations and part processing. The official submission document may be downloaded from our website at: [http://www.intlmag.org/call\\_for\\_papers.html](http://www.intlmag.org/call_for_papers.html) or click [here](#).

\*\*\***Deadline for abstract submission is December 3, 2012.** Please submit abstracts to [info@intlmag.org](mailto:info@intlmag.org)\*\*\*

### Please Join Us for the 70<sup>th</sup> Annual World Magnesium Conference in Xi'an, China

The World Magnesium Conference is scheduled for May 19-22, 2013. This event is the premier international **magnesium** industry conference that highlights the latest technological advances, innovative applications, and emerging developments in the global marketplace. The conference combines informative technical sessions, exhibits, networking and social opportunities for a well-rounded industry experience.

- Industry Updates
- Technical Program, provide a wealth of information for **magnesium** industry professionals and address topics ranging from an overview of the current state of the **magnesium** industry to **magnesium** process breakthroughs, applications, and business management issues.
- Social Program
- Sponsorship Opportunities
- Awards of Excellence, IMA's competition recognizing outstanding **magnesium** products and innovative manufacturing technologies
- International Environmental Responsibility Awards
- IMA Annual Membership Meeting
- Exhibit Showcase
- Spouse Program
- Tours

Xi'an today sits in the fertile Wei River valley, one of the epicenters of early Chinese civilization. The area was home to the capitals of several major dynasties (historians count 11), stretching all the way back to the Zhou in the 11th century BC. The remnants of this ancient world are everywhere – from the First Emperor's Terracotta Army to the Muslim influence that still characterizes the city. Many of the city's attractions are unique not only to the city itself, but to all of China.

Click [here](#) for the 2013 IMA Annual World Magnesium Conference flyer.

### IMA Association News – The New IMA Members-Only “IMA News”

The IMA is pleased to announce the soon-to-come “IMA News!” We will be rolling out the new and improved members-only “IMA News” with next week's email blast.

We have improved the design, look and feel of the newsletter as well as accessibility to the published articles. We have also added a graphic designed by the IMA Asia office so our members from China can directly access the IMA China website translated versions. Beginning next week we will also enhance the members-only section of the IMA website by publishing the China Magnesium Industry and Market Bulletin directly on our website.



We are excited to roll these changes out to all our members. We hope you like the changes and improvements and we invite you to share any feedback you may have with the Head Office at [info@intlomag.org](mailto:info@intlomag.org).

## The IMA Invites You to Join Our LinkedIn Group

LinkedIn is an excellent virtual networking tool and knowledge sharing resource, allowing people to make connections without actually going out and meeting people face-to-face and exchanging business cards. The venue offers the opportunity to exchange strategic ideas with a much larger base of **magnesium** professionals from around the world. With the steady popularity and increase in social networking popularity, LinkedIn fits in perfectly with the **magnesium** business professional networking environment.

Our IMA Group community is growing very quickly. We have 286 members worldwide who use LinkedIn for connecting with current business contacts to build and develop relationships to further levels as well as meet new professional contacts. It offers group discussions that create awareness and information sharing within the thriving **magnesium** community.

We encourage all IMA members to take advantage of the opportunities for **magnesium** discussion contributions and networking expansion. Utilize the IMA Group to meet amazing professionals within the **magnesium** industry across the globe. LinkedIn provides key resources that **magnesium** professionals need to be informed and even continue to grow.

Please visit our IMA Group website on LinkedIn and join today! You can find us here:

[http://www.linkedin.com/groups/International-Magnesium-Association-IMA-107283?goback=%2Eanp\\_107283\\_1346872555081\\_1](http://www.linkedin.com/groups/International-Magnesium-Association-IMA-107283?goback=%2Eanp_107283_1346872555081_1)

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## INDUSTRY NEWS

### **GM Tests Magnesium Sheet Metal to Take Weight Out of Cars** **[www.newsdaily.com](http://www.newsdaily.com) (23-Oct-2012)**

Engineers and scientists at General Motors Co believe they have made a big step toward the expanded use of **magnesium** in vehicles by heating the lightweight metal so it can be formed into precise, rigid shapes needed for auto parts.

Die-cast **magnesium** is commonly used in cars and trucks for steering wheels and other parts. What is new, said GM metals researcher Jon Carter, is the ability to form **magnesium** sheets to make inner panels of doors and trunk lids.

GM is starting slow, but eventually the expanded use of **magnesium** can take a significant amount of weight away from cars and trucks, Carter said.

**Magnesium** is 75 percent lighter than steel and 33 percent lighter than aluminum, said GM engineer Paul Krajewski.

"**Magnesium** will allow us to reduce the weight of certain sheet metal panels and thereby improve fuel efficiency and handling and overall performance," Carter said in a telephone interview.

It is more difficult, Krajewski said, to form lightweight metals such as aluminum than it is to stamp out auto parts by using steel. It is difficult still to form **magnesium** sheets into the intricate shapes needed for inner panels on cars and trucks.

GM will conduct a production run of 50 vehicles to be bought by consumers in the fourth quarter, but Carter would not indicate the model or models that will test the expanded use of **magnesium** this year.

Carter and Krajewski said the goal of taking weight out of vehicles is largely due to the more stringent U.S. fuel economy standards to go into effect in coming years.

Forming **magnesium** sheets into auto parts by heating them to 842 degrees Fahrenheit (450 degrees Celsius) is a slow process. Eventually, Carter said, GM researchers want to test the use of alloys in the

process that will allow **magnesium** sheets to be reshaped at lower temperatures, and eventually, at room temperature.

So the use of **magnesium** in GM vehicles will be small in the near-term, but may expand as researchers and engineers speed the process.

GM has patents on the process for heating **magnesium** and for making it more resistant to corrosion. The company plans to license the technology to allow auto-parts suppliers to produce the **magnesium** inner panels, according to GM spokesman Kristopher Spencer.

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## CHINA'S LATEST

### **China Magnesium Industry and Market Bulletin**

[www.chinamagnesium.net](http://www.chinamagnesium.net) (28-Sep-2012)

#### **Market Focus**

##### **Magnesium Price Kept Stable**

From September 3 to September 7, ex-works quotations for 99.9 minimum ingots from leading production bases continually kept steady as indicated in Shanxi from 18,300 – 18,500 yuan, Shaanxi from 18,100 to 18,200 yuan and Ningxia from 18,200 – 18,400 yuan. Export prices stayed at 3,300 - 3,340 US dollars. In Ningxia, a trade said he felt price went down “It is pretty long holiday, some company will choose to sell at low price for cash.” However, the market has been quite stable for this week.

A Shanxi-based producer said that there were truly some producers sell at low price, for not feeling good for the market. The prevailing contracts in Shanxi were done at 18,300 to 18,500 yuan, similar to before the CMA annual conference was held. “I think it would decrease after the holiday, because the stocks are a bit high now.” he added.

In Fugu, the prevailing quotation was at 18,200 yuan, with deals closed mostly at 18,100 yuan. A source said that his plant is currently running out of coal supply, so the production for semi-coke, and **magnesium** were not on operation. Plus, the equipment will be examined and fixed soon. Since September 26, the coal mining in Fugu will be shut down, giving ever-growing unavailability of coal.

#### **Industry News**

##### **Tonghua Xiangyuan Magnesium Comes Through Magnesium Alloy Trial Production**

Recently, Xiangyuan Magnesium, the largest **magnesium** producer in Jilin province, announced its successful trial production of **magnesium** alloy.

Xiangyuan Magnesium utilizes vertical retort reduction and coal-to-coal gas technology to lower operational cost, realizing green production and reuse of energy with **magnesium** purity higher than 99%. Xiangyuan Magnesium, one of the projects of 12th Five Plan and located in Dongchan district of Tonghua city, Jilin province, is a large-scale mineral manufacturer for mining, producing, selling and research of **magnesium** products. Phase one investment of 490 million Yuan started in July of 2010 to build a 25 kt capacity of **magnesium** production line.

Located in Dongchang District, Tonghua, Xiangyuan Magnesium covers 399600 square meters and has a total planning investment of 1.03 billion Yuan. Phase two construction is planning for 540 million Yuan to build another 25 kt capacity line for magnesium. Major products will be ingots, **magnesium** alloy ingot, **magnesium** granule, **magnesium** sacrificial anodes, die castings, profiles, and sheet etc.,. Comprehensive applications cover building bricks from **magnesium** slug, and raw materials for nearby cement plants.

##### **Hebi Will Hold the 4th China Magnesium New Product and Technology Exhibition**

To promote the application of **magnesium** and its alloy, and advancement of the **magnesium** position in nonferrous metals, as well as to push forward the **magnesium** industry development in Hebi, Hebi government, department of Industry and Information Technology and CMA are to held The 4th China Magnesium New product and Technology exhibition and China Magnesium Industry Development Forum



in Hebi through 25th to 27th October.

The event will invite 200 involvers from CMA, **magnesium** and aluminum processing sectors, LED manufacturers, to auto parts producers and research institutes. It has been through for the past three years through 2009 to 2011, which was joined by Germany, Japan, Australia, etc, and more than 400 enterprises throughout China.

### China Produced 430.4 kt of Primary Magnesium, Down 7.34% y-on-y

From January to August, China's output of primary **magnesium** was 430.4 kt, down by 7.34% compared with the same period of 2011.

Among the output, Shaanxi contributed 196.4 kt, up by 29.56% y-on-y; Shanxi 138.8 kt, down by 33.79% y-on-y; Ningxia 49.9 kt, down 21.11%; Xinjiang 16.3 kt, up by 92.8% y-on-y; Jilin 6,000 tons, up by 133.93% y-on-y; Inner Mongolia 500 tons, down by 71.02% y-on-y.

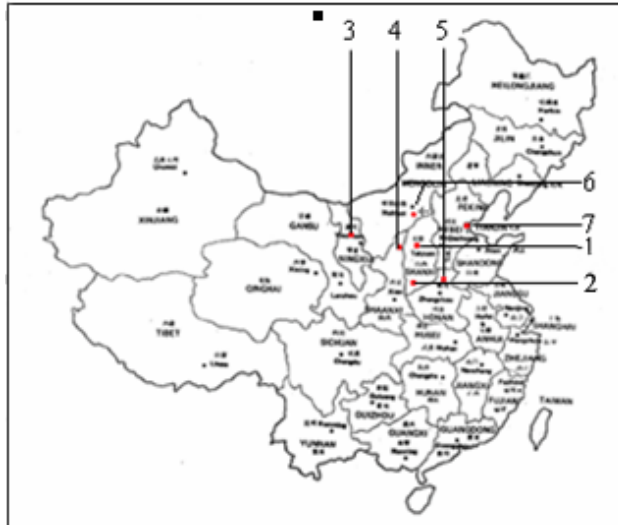
## Price Indicators

### Sunlight's Price, Pure Magnesium (>99.8%) and Aluminium

Item		Magnesium Price	Unit
Shanxi Province	Taiyuan City,ex-works <sup>1</sup>	18300-18500	RMB yuan/ton
	Yuncheng City,ex-works <sup>2</sup>	18400-18600	RMB yuan/ton
Ningxia Autonomous Region, ex-works <sup>3</sup>		18200-18400	RMB yuan/ton
Shaanxi Province, ex-works <sup>4</sup>		18100-18200	RMB yuan/ton
Henan Province, ex-works <sup>5</sup>		None	RMB yuan/ton
Inner Mongolia Autonomous Region, ex-works <sup>6</sup>		None	RMB yuan/ton
FOB Xingang, Tianjin <sup>7</sup>		3300-3340	USD/ton
CIF, Rotterdam Port		3390-3430	USD/ton
CIF, Toronto Port		3420-3460	USD/ton
Date	SHFE Spot Aluminium		Unit
24-Sep.-2012	15530/		RMB yuan/ton
28-Sep.-2012	15595/		RMB yuan/ton

## SHFE: Shanghai Future Exchange

(Exchange Rate of USD versus RMB is 6.2654 on September 28 based on <http://www.boc.cn/>. We place a Chinese map here to mark the major production bases and Xingang Port of Tianjin for your reference.)



### Note:

1. All the ex-works prices are VAT-paid.
2. The FOB price is based on ex-works basis, plus inland freight and miscellaneous expenses at Xingang Port of Tianjin. Because the distance from these six production bases to Xingang Port is different, their land freights also vary. FOB price includes 10-percent exports tariff from Jan. 1, 2008.
3. CIF prices are based on FOB price plus ocean freight and insurance, which will also vary time by time.
4. When getting ex-works price and FOB price, we give some weight numbers to each respondent and then get the weighted average prices.



## Marketplace

### PLACE YOUR AD HERE

*IMA Marketplace* is a "classifieds" section for advertising equipment and materials for sale and positions available. Advertising rates for 4 Weeks Run, Space not to exceed 3" x 3", 100-word maximum:

- Members: \$100
- Non-members: \$150
- Blind Box Number: \$50 additional

For more information or to place an ad, please contact the IMA office by phone at (847)526-2010 or by email at [info@intlomag.org](mailto:info@intlomag.org)