AUTO ALUMINUM ALERT

AUTOMOTIVE ALUMINUM The Performance Advantage™
The Aluminum Association, Inc.

ALUMINUM NEWS

All Future Jaguars and Land Rovers to Feature Aluminum

In a recent AutoblogGreen article, Tata Motors chairman, Ratan Tata, announced Jaguar Land Rover will construct all future vehicles with aluminum bodies, extending the lightweight technology from Jaguar to the rest of the vehicle line. Jaguar continues to be an industry leader in auto aluminum use and it is clear JLR recognizes the benefits of the lightweight material including improved vehicle driving performance and increased fuel economy.

More than Half of 2009's Safest Vehicles are Aluminum-Intensive

As the auto industry enters the 2010 model year, the ALTG reflects on the success of the 2009 model year vehicles recognizing eight out of the 15 safest vehicles according to NHTSA and IIHS contain more than 400 pounds of aluminum (or 10 percent of curb weight). With auto aluminum use projected to continue rising, the ALTG looks forward to seeing what 2010 has to offer in terms of aluminum use and enhanced vehicle safety.

University of Waterloo Research Uses Aluminum to Build Better Cars

University of Waterloo researchers will receive $3.7 million from the Canadian Foundation for Innovation to study how lightweight materials, including aluminum, can be used to improve vehicle fuel efficiency. The results from the study are expected to help develop the next generation of lightweight and high-strength automotive materials, reported *Exchange* magazine, a business trade publication. Researchers will also examine the environmental and performance advantages aluminum and other lightweight materials offer in the development of more efficient vehicles.

U.S. Looks to Europe for Aluminum Repair Techniques

Several automakers are exploring ways to advance their fleets by integrating alternative powertrain vehicles. According to an article in *ABRN* (Automotive Body Repair News) *Magazine*, Europe leads collision repair for safety and fuel technologies, using techniques like stretching multiple alloys including aluminum over alloy skeletal frames to increase strength. As U.S. vehicles move toward competitive safety and fuel efficiency trends, automakers and collision repair experts are looking to Europe for advice on collision repair. Similar techniques will likely be used in the U.S. as we look to lightweighting as part of the solution for meeting stricter fuel economy standards.

2010 Ford Taurus Presents Bold Statements in Style, Technology and Structure

The revamped 2010 Ford Taurus makes its way to showrooms this fall with many style and technology advancements including aluminum wheels, pistons, engine block and heads. Its 2009 predecessor is among the high content vehicles in North America featuring more than 400 pounds of aluminum. According to ALTG growth research, Ford vehicles average roughly 309 pounds of aluminum with more than half of the automaker's fleet containing aluminum engine blocks, wheels and heads at 60, 73 and 97 percent respectively.

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CALENDAR OF EVENTS

Frankfurt International Motor Show
September 17-27, 2009
Frankfurt, Germany

North American International Powertrain Conference
Society of Automotive Engineers
September 23-25, 2009
Toronto, Ontario

The Business of Plugging In
Center for Automotive Research
October 19-21, 2009
Detroit, MI

FAST FACTS

Aluminum Provides Safer and Stronger Vehicles for Consumers

Today's consumers are demanding more fuel efficient and safer vehicles. Automotive aluminum not only improves fuel economy, but also helps create a safer vehicle by extending crush space. Discover aluminum's safety advantage:

- Aluminum structures can be designed to fold predictably during a crash; letting the vehicle absorb most of the crash energy instead of its passengers.
- In crashes involving SUVs and smaller vehicles, total injuries can be reduced up to 42 percent by using aluminum to reduce overall weight.
- Aluminum can replace iron and steel in automobile structures for a weight savings of 45 to 50 percent while increasing performance and fuel efficiency without sacrificing safety.

The Aluminum Association's Auto & Light Truck Group (ALTG) communicates the benefits of automotive aluminum to help accelerate its penetration through research programs and related outreach activities. Member companies include: Alcoa Inc., Novelis Inc., Alcan Inc., Aluminum Precision Products, Kaiser Aluminum Corporation and Sapa Group.

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