AUTO ALUMINUM ALERT

ALUMINUM IN TRANSPORTATION
THE ALUMINUM ASSOCIATION, INC.

ALUMINUM NEWS

Aluminum Engines Top Ward's 2010 "10 Best" List

Aluminum is the big winner in this year's ranking of the "10 Best Engines" by Ward's Automotive Group. Eight of the 10 engines recognized are made of aluminum, each with an aluminum head. Aluminum's lightweight, high-strength and corrosion resistant properties make it attractive for a variety of auto applications including engine manufacturing as automakers are increasingly looking to improve fuel economy while maintaining safety and performance. Use of aluminum in vehicle engines has grown over the past three years with aluminum use for engine blocks experiencing the largest increase at nearly 70 percent market penetration.

Click here to learn more.

Automakers Continue to See Benefits of Aluminum

Automotive Engineering International recently reported automotive aluminum continues to become a more common choice in vehicle technology as the industry moves to manufacturing more environmentally-friendly, fuel-efficient and wallet-conscious vehicles. The article highlights Jaguar's success engineering with aluminum as well as the company's goal to become the "aluminum car company" by achieving a minimum of 40% weight savings on its cars, or 330 lbs. per vehicle. Long-term worldwide aluminum content is projected to grow up to 28 to 30 billion pounds per year – from the current 17 to 18 billion pounds – through 2020 as cars are made lighter to help lessen fuel consumption and improve emissions.

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Ford Uses Aluminum to Improve Vehicle Performance

Ford Motor Company's recent announcement of an aluminum engine in the 2011 Ford Shelby GT500 showcases the automaker's latest use of aluminum to reduce excess mass, contributing to a 120 pound overall weight reduction. Vehicles made lighter with aluminum can accelerate and brake faster than their heavier counterparts, improving performance. Aluminum use also contributed to the vehicle's improved EPA rating, going from 14 mpg city and 22 mpg highway in the 2010 model, to 15 mpg city and 23 mpg highway in 2011. Lightweighting has been, and will continue to be, an important strategy for high performance, fuel-efficient vehicles.

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2010 Audi A8: An Aluminum Leader

Enhanced performance, lower CO2 emissions and increased safety are some of the significant advantages the 2010 Audi A8 boasts as a result of its extensive use of lightweight aluminum. Since its introduction to North America in 1997; the A8 has used

February 23, 2010

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CALENDAR OF EVENTS

Geneva Auto Show
March 4-14, 2010
Geneva, Switzerland

New York Auto Show
April 2-11, 2010
New York, NY

SAE World Congress
April 12-15, 2010
Detroit, MI

FAST FACTS

Aluminum Use at Record-Breaking High

As automakers continue to make improvements to their fleets, they are turning to aluminum for innovative solutions that provide fuel economy, safety and performance benefits. Aluminum content is projected to grow steadily across the globe. Consider:

- Auto aluminum content reached an all-time high at 8.6 percent of average vehicle curb weight in 2009, continuing almost 40 years of uninterrupted growth in North America.
- An estimated total of 67 vehicles from the European (49) and Japanese (18) markets now contain more than 400 pounds of finished aluminum.
- Industry experts rank aluminum use as a top option and "very significant" to meet the federal mandate to improve fuel economy by 40 percent by 2020.

Click here to learn more.

aluminum exclusively in the vehicle frame and body panels. Overall, lightweighting with aluminum increases vehicle performance, driving satisfaction and – best of all – maintains or even improves automotive safety and fuel efficiency.

Click here to learn more.

The Aluminum Association's Aluminum Transportation Group (ATG) communicates the benefits of aluminum in ground transportation 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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