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Modumetal featured in National Defense Magazine article about search for lighter metals for armor

Seattle-based firm helps lead the way in development of alternatives to steel armor for nation's military

February 1, 2008 - (Seattle, Washington) Modumetal a Seattle, Washington-based advanced composite alloy firm that represents a potential revolution in metals performance, is one of a handful of companies featured in the February 2008 edition of the National Defense Magazine, the trade publication for the National Defense Industrial Association.

Modumetal is a patent-pending material that is intended to deliver exceptionally strong and tough parts through the exploitation of nanotechnology principals and applications. Through a production process called Modumetalization, the company can "grow" steel parts that can be used in low cost, large scale production.

Last year, Modumetal was selected to participate in the DARPA Armor Challenge program. DARPA, or the Defense Advanced Research Projects Agency, acts as the science and research arm of the Pentagon.

The primary goal for the armor challenge is a 50 percent reduction in weight compared to rolled homogeneous armor steel for protection against 7.62mm armor piercing rounds and 20mm blast simulating projectiles. A secondary objective is to be able to produce vehicle armor materials that are cost competitive with, or less than, RHA steel.

Modumetal was selected to receive support following review of its new alloy, which applies tenets of nanotechnology to produce materials that are ultimately expected to provide the same level of protection as steel for half the weight.

In the article, Christina Lomasney, Modumetal CEO, describes the practical applications of Modumetal, and why its potential benefits could outweigh those of traditional steel and ceramics.

> *"Composite armor and ceramics weigh less than steel but the materials … can't carry loads the same way that steel can", she (Lomasney) says.*
> *With nano-laminated alloys as part of the structure of a vehicle, Lomasney believes, the weight can be cut in half compared to RHA."*

For more information on this National Defense Magazine article, go to: http://www.nationaldefensemagazine.org/issues/2008/February/SearchCont.htm

To learn more about Modumetal, visit us at: www.modumetal.com

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