

Improved alloy for high-performance machines

VACUUMSCHMELZE presents further development of VACOMAX

Press contact:

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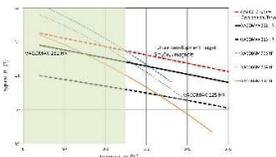
Norman Lemm
 VACUUMSCHMELZE GmbH & Co. KG
 Tel. +49 (0)6181 / 38-0
 Fax +49 (0)6181 / 38-2645
 norman.lemm@vacuumschmelze.com
 vacuumschmelze.com

Konzept PR
Simon Federle
 Tel. +49 (0)821 / 34300-19
 s.federle@konzept-pr.de

Contact adress for reader requests:
 VACUUMSCHMELZE GmbH & Co. KG
 Postfach/P.O.B. 22 53
 D-63412 Hanau
 Tel. +49 (0)6181 / 38-0
 Fax +49 (0)6181 / 38-2645
 info@vacuumschmelze.com
 www.vacuumschmelze.com

Hanau – VACUUMSCHMELZE (VAC) is working on the further development of the Sm₂Co₁₇ alloy VACOMAX® 262 HR for demanding high-performance machines. Magnets of this alloy based on rare-earths and cobalt are used in a wide range of applications. These include, for example, electromotors, racing, and aviation.

The magnets are distinguished by a particularly high coercive field strength with a high saturation polarization as well as high temperature and corrosion resistance. The company is currently working on VACOMAX 262 HRP to further develop the product. The aim is to realize higher remanence values and energy densities. VACOMAX 262 HRP offers higher flux values than conventional Nd-Fe-B alloys at temperatures above 130 °C, due to the low temperature coefficient of the remanence. The next development goal is to raise the magnetic properties to $B_{r\ min} = 1,19$ Tesla.



Temperature dependency of remanence values from various VACOMAX and VACODYM alloys

The further development of the alloy will be presented for the first time at this year's CWIEME from 20.06. until 22.06. in Hall 1.1 at booth A11 in Berlin. Another highlight of the event is the HYPERLOOP pod design of the TU Delft. The system incorporates VAC technology, and took first place in the Hyperloop Pod competition this year.

"At this year's CWIEME Berlin, we will present the latest developments and products for electric drives, automotive as well as solutions for intelligent power grids. We are pleased that we are able to inform visitors about application areas as well as individual solutions," says Norman Lemm, Marketing Director at VAC.

VACUUMSCHMELZE (VAC), based in Hanau, has 4,300 employees worldwide, 1,450 of whom are in Hanau. The company designs, produces and markets advanced materials, particularly with magnetic, but also with other physical qualities as well as related products. In 1914, the first vacuum furnace laid the foundation for today's VACUUMSCHMELZE. Industrial vacuum melting techniques for alloys have been in operation since 1923.

VAC Group today achieves annual sales of approx. 380 million euros in over 50 countries and is holder of around 800 patents. The company is among the world's most highly innovative developers of advanced industrial materials.

VAC's range of products comprises a broad array of advanced semi-finished materials and parts, inductive components for electronics, magnets and magnet systems for use in a wide variety of fields and industries spanning watch-making and medical technology, renewable energies, shipbuilding, installation technology, automotive and aviation. VAC's custom solutions are developed in close collaboration with the customer, reflecting the company's expertise in materials, applications and state-of-the-art production technology.

For more information, visit www.vacuumschmelze.com

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