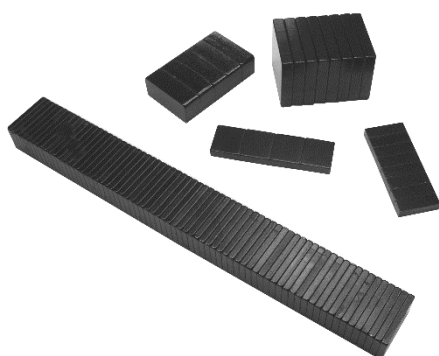


Improved magnetic properties at reasonable prices

New rare-earth permanent magnet family

Hanau - Innovative ideas in product development - this is what characterizes the material specialists at VACUUMSCHMELZE (VAC), who continuously optimize the range of rare earth permanent magnets. The latest result of this development work is a new performance class of neodymium-iron-boron magnets, VACODYM 80X TP. The main features of this alloy are improved magnetic properties and higher environmental compatibility.



A reduction of volatile heavy rare earths, in this case dysprosium, by 1.5 % facilitates the supply of raw materials and supports environmental protection. A remanence increase of up to 50mT contributes to the performance increase in the application. The coercivity field strength (HcJ) can be increased by up to 600 kA/m at part thicknesses of a few millimeters by the grain boundary diffusion process established at VAC. Depending on the coercivity, permanent magnets from this new family of alloys can be used at temperatures exceeding 200 °C. This is opening up a wide range

of applications in the automotive, aerospace and high-performance engine sectors.

"VACODYM 80X TP is not only a technical advancement, but also allows us to lower our price level by reducing heavy rare earths," says Michael Putz, Product Manager for Permanent Magnets.

VACUUMSCHMELZE (VAC) is among the world's most highly innovative developers of magnetic materials, inductive components and other related products. With a global network of Sales and Field Application Engineers, VAC designs and manufactures tailor-made solutions for a wide variety of industries, comprising renewable energies, automotive, industrial automation installation technology, and aviation.

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