Press Release

Extreme resistance:

VACOFLUX 9 CR

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Hanau – Low weight, small size and best performance even at high application temperatures are requirements that automotive components have had to meet for a long time. In recent years, the environmental aspect has also become increasingly important: VACUUMSCHMELZE (VAC) high-performance materials are used here.

Modern diesel and gasoline engines work with fuel injection, whereby multiple injections are made in very short times to optimize combustion and thus reduce fuel consumption, exhaust gas and noise. The high pressures require strong magnetic actuators. VAC offers a wide range of different alloys with high saturation and corrosion resistance.
For diesel injection, rods made of VACOFLUX 17, 18 HR and 50 are used, for gasoline injection VACOFLUX 9 CR and other coated materials. The materials are supplied as rods or wires.

The high corrosion resistance required for gasoline injection is ensured by the addition of chromium, which usually reduces saturation. The saturation could even be increased by adding cobalt. The VACOFLUX 9 CR alloy therefore offers a high power density due to the high induction, thus miniaturization and better dynamic behaviour of the actuators are possible.

VACUUMSCHMELZE GmbH & Co. KG

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