

**flexible. efficient. successful.**

Hanau - Smartphones are an essential part of everyday life for many people, because technical progress is making them more powerful and comfortable. The market for smartphones that can be charged inductively is growing continuously, as nothing is more convenient than a wirelessly charged smartphone. Many established and also more and more smaller manufacturers include this feature in their new developments. VITROPERM 800 from VACUUMSCHMELZE (VAC) is established as the state of the art because it allows the thinnest effective shielding foils to be realized.



VAC has more than ten years of experience with wireless charging applications. VITROPERM 800 is considered the benchmark material for inductive charging due to its outstanding shielding performance against external interference fields and its high efficiency in power transmission.

This material is the thinnest material available on the market and thus enables very flat designs. Depending on the processing (structuring), a very wide frequency range can be covered. 100 - 205 kHz according to the Qi standard of the Wireless Power Consortium (WPC), 277 - 357 kHz according to the Power Matters Alliance (PMA), 6.78 MHz applications according to the Alliance for Wireless Power (A4WP) and even 13.56 MHz according to the NFC standard. This opens up numerous application possibilities. In the high-frequency range, for example, these are the improved readability of RFID labels, since the extremely flexible and break-proof foils significantly increase the transmission range. Modern data transmission systems such as Near Field Communication (NFC), which is based on RFID technology, are also becoming increasingly widespread: cashless payment by smartphone or data transfer between compatible mobile devices are just a few examples of applications

"Nanocrystalline foil made of VITROPERM is the leading technological solution for shielding in inductive charging. M, VITROPERM 800 has not only established itself as the standard for mobile radio devices due to its advantages, but is also predestined for other applications, such as the medical and automotive industries," says Matthias Schmidt, Product Manager for nanocrystalline materials at VAC.

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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