

TC-BAC PROTECT TECHNOLOGY: **PROTECT** THE AIR YOU BREATHE



THE TECHNOLOGY TRANSFERS **ELEMENTAL SILVER** INTO A **SILVER-CONTAINING MIXTURE** OF INORGANIC SALT AND **SURFACE-ACTIVE AGENTS** TO ACT UPON HARMFUL MICROBES AND PROTECT THE AIR YOU BREATHE.



Using the silver-coating technology from the Swiss company Textilcolor AG, Medpack Swiss Group starts the new line of protective face masks designed to filter the air with an antibacterial shielding.

Historically, silver is long-known for its antimicrobial properties, for instance, milk was preserved by using silver coins in the early modern age. Today, when science is equipped with knowledge and tools to utilize chemical elements and nanoparticles, diverse industrial fields, such as cosmetics or medicine, can largely benefit from the use of silver.

TC-BAC Protect is a modern-day technology which transfers the elemental silver into a silver-containing mixture of inorganic salt and surface-active agents to be applied to microstructured substrates by means of highly innovative coating procedures. As a result, a lasting supply of silver-tying compound accumulates in fabric, capable of sustaining many cycles of washing and drying.

The working principle is simple: in the presence of moisture – when the wearer breathes out – highly effective negative silver ions are set free in precise doses to fight harmful microbes immediately. After all, silver is well-documented as an efficient bactericidal agent, TC-BAC Protect method just allows to rationally use its bactericidal qualities in the product purposefully created for protection.

In the new Dr.Frei Protect masks, TC-Bac Protect finish is applied to the inner cotton layer of triple-ply normoflex, thus coming in direct contact with the user's face. This technology provides silver-based antimicrobial freshness and better hygiene, more comfort for the wearer and longer service life for the mask. As the final touch, new silver-treated Dr.Frei Protect facepieces are offered with vivid and stylish prints to keep the wearer and onlookers in a good mood.



FOR MORE INFO PLEASE VISIT: [PROTECT.DR-FREI.COM](https://protect.dr-frei.com)