

We are pleased to announce that we have successfully completed the project TQ18000040 – Thermally conductive polymers for engineering applications, implemented with the financial support of the Technology Agency of the Czech Republic within the SIGMA program. The project ran from April to September 2025 and its main goal was to verify whether our new polymer THECON will withstand real-world use.

THECON is lightweight and at the same time conducts heat very well. Thanks to this, it has great potential to be used in a wide range of modern technologies. As part of the project, we conducted extensive tests of thermal and mechanical materials in cooperation with Baumüller Brno, BUT in Brno and a testing center in Germany. THECON was tested in laboratory conditions and in real operation, and the results confirmed its high technical readiness.

The project also significantly advanced us in terms of business strategy. Thanks to the detailed market analysis that we prepared as part of the feasibility study, we gained a deeper insight into the competitive environment, customer expectations and priority segments where THECON has the greatest chance of rapid adoption. We also identified key market barriers and set a realistic market entry plan, including an estimate of financial costs, possible business models and recommendations for future certification.

The TAČR opposing committee evaluated the project positively and confirmed that all objectives were met in full. The feasibility study provided a clear commercialization plan, market analysis and verification of practical use. The committee also stated that the results have real potential for application not only in the Czech Republic but also abroad.

Specific applications for which THECON is suitable include, in particular, cooling of electric motors in industrial automation, thermal management of power electronics, structural parts for electromobility and use in battery systems, where it can replace metal components and contribute to weight reduction and increased safety. Significant potential was also identified in the aerospace and automotive industries, where the demand for lightweight and thermally conductive materials is high.

The solution brought us not only technical knowledge, but also practical project experience and a comprehensive business perspective on the launch of a new material on the market. Thanks to this, we are able to better manage future product development, plan investments more effectively and target partners and customers.

This project is another step in the development of the company for us – and at the same time confirmation that we are moving in the right direction in the long term. This is our second successfully implemented grant project. We are following up on the first one – Prototype and Verify, focused on the development of electromechanical systems and

rapid verification of prototypes – by further expanding our capacities and know-how. Thanks to these projects, we are managing to strengthen our position as an innovative technology company and bring solutions with real benefits to the market.

The completion of the project represents an important milestone. The results obtained allow us to move THECON towards industrial production, expand cooperation with technology partners and prepare pilot applications for the first customers.

We thank all partners and the Technology Agency of the Czech Republic for their support. The project helped us move an important Czech material innovation closer to real use.

If you are interested in THECON and are looking for new ways to improve the thermal management of your equipment, do not hesitate to contact us. We will be happy to discuss cooperation options.