



Case Study:  
Inverter damper insulation  
for Esscano Power

## The challenge

Denmark-based Esscano Power, a leading manufacturer and supplier to the industrial damper market worldwide, was seeking a better-performing alternative to its mineral wool material diverter damper insulation.

The company examined a variety of other refractory ceramic fibre (RCF) options before contacting Morgan for information regarding its Superwool® low bio-persistent insulating fibre product.

The Superwool® Plus blanket offers an alternative to traditional refractory ceramic fibre insulation, and is exonerated from Carcinogen classification in Europe under Nota Q of Decision (EC) N°1272/2008.

## How Morgan worked with Esscano Power to develop a solution

Having identified Morgan's Superwool® Plus blanket product as a potential solution, Morgan supplied a report which outlined potential heat calculations, proving it has the capability to reduce total insulation thickness without compromising performance. The report also provided Esscano with product-specific details, explaining why it was the superior choice for installation, recommending the product in 50mm thickness and 128kg density.

This report was followed up with meetings with the Esscano team in Denmark to explain Morgan's offering in more detail and address some long-standing employees' initial reservations. Particular emphasis was placed on product availability, exceptional customer support and improved product packaging.

The team from Morgan also demonstrated the possibility of reduced installation costs and showed how the product would be easier to handle and give a much more aesthetically attractive result when installed.

Taking the support from Morgan into account, Esscano Power decided to make the switch to Superwool® Plus blankets for its diverter damper insulation solutions.

Superwool® Plus blanket provides excellent insulation in high temperature environments with a classification temperature of 1200°C



## The result

The Superwool® Plus blanket has high tensile strength and good handling ability. In addition to the blanket form used in the Esscano application, Superwool® Plus is also available in blanket modules, Pyro-Bloc® modules, paper and lubricated bulk, making it easier for handling. Engineered to maximise fibre content, it provides excellent insulation in high-temperature environments, with a classification temperature of 1200°C (2192°F) and up to 20% lower thermal conductivity than competitive insulation systems. This enables users to enjoy manufacturing process efficiencies and cost savings through reduced energy usage.

Along with lower installation costs for Esscano, Superwool® Plus blanket also has improved handling, resulting in lower waste costs. Since it has a much higher temperature performance, it also offers greater security in case of any major temperature overrun.

Superwool® Plus blanket has up to

**20%**

lower thermal conductivity than competitive insulations

“WE ARE CONFIDENT THAT THIS IS THE PRODUCT OF CHOICE FOR THIS APPLICATION”  
Esscano Power



## ABOUT MORGAN ADVANCED MATERIALS



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