



ECOSE Brochure

K-BR-ECOSE 11-14

ECOSE® Technology



1 What are Knauf Insulation glass mineral wool products with **ECOSE® Technology** made from?

Knauf Insulation glass mineral wool insulation products with **ECOSE® Technology** form a new generation of glass mineral wool insulation, employing a revolutionary, new bonding agent made from natural and more sustainable organic materials than the non-renewable, phenol-formaldehyde or acrylic based resins traditionally used.

2 Why are products made with **ECOSE® Technology** more sustainable than comparable available products?

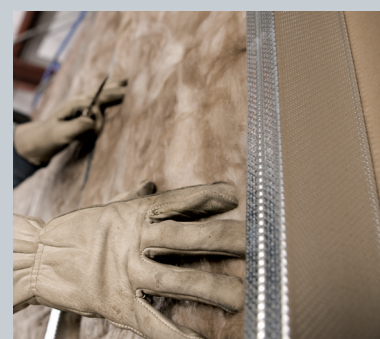
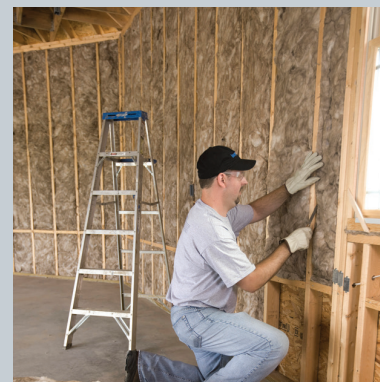
Products made with **ECOSE® Technology** are more sustainable, as they have the added benefit of using a plant-based binder that is up to 70% less energy intensive than traditional binders. With **ECOSE® Technology**, rapidly-renewable organic materials replace traditional chemicals to create more advanced and sustainable products. And, since there is no formaldehyde or phenol used with **ECOSE® Technology** it also helps to reduce our carbon footprint even further.

3 How is glass mineral wool insulation with **ECOSE® Technology** distinguished from traditional fiberglass insulation, in a visible way?

The products distinguish themselves by color. With the new technology Knauf Insulation's glass mineral wool insulation has a distinctive natural brown color, which we did not choose... it occurred naturally! The packaging is clearly marked that the product inside is made with **ECOSE® Technology**.

4 Why is **ECOSE® Technology** used, if current products are considered sustainable?

Sustainability is also about continuous improvement, pushing the technical boundaries. We believe there are always opportunities to improve. This development was driven by our intensive research & development program to fulfill our desire to provide customers with innovative products to meet the growing market need for more sustainable construction materials — and by our company-wide commitment to reduce our own carbon footprint and ensure greater sustainability in all aspects of our business.



5 How does glass mineral wool with **ECOSE® Technology** perform compared to traditional fiberglass insulation?

When insulation materials are subjected to standards affecting performance testing like ASTM C 665, Knauf Insulation glass mineral wool with **ECOSE® Technology** has the same industry leading quality as other Knauf Insulation products, with the additional benefit of being more environmentally friendly, sustainable and easier to handle.

6 What testing have Knauf Insulation glass mineral wool products with **ECOSE® Technology** gone through?

The products have undergone a comprehensive and rigorous evaluation to determine their environmental effects and acceptability in use per ASTM Standards, which indicate that products with **ECOSE® Technology** improve on the already excellent performance of conventional glass mineral wool insulation products. As with all Knauf Insulation products, our **ECOSE® Technology** products comply to all applicable standards, such as health and safety standards, quality and performance certification for glass mineral wool products and CE-marking for Europe, as well as 'Underwriters Laboratories' criteria UL Environment Greenguard and UL Environment Validated in North America.

7 Why should products with **Ecos® Technology** be specified?

Knauf Insulation products and resources help solve challenges of sustainable design that exist every day when planning the technical construction of commercial offices, hospitals, higher education buildings, single and multi-family homes and schools. Knauf Insulation offers Guide Specification documents which include product as well as application information that will assist in specifying building, pipe and mechanical equipment, along with air handling insulation systems. The purpose of these insulation systems is to create energy savings, reduce greenhouse gas emissions, and provide improved interior environment through enhanced acoustics and improved indoor air quality. And, Knauf Insulation products contribute to LEED credits and criteria required to meet Living Building Challenge.

8 What other benefits does **ECOSE® Technology** offer?

Products made with **ECOSE® Technology** are more friendly to handle, are less dusty, and have no odor.





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