

Household Appliances Solutions

ISOVER Insulation Solutions for Cooking Ovens



ISOVER
SAINT-GOBAIN

Introduction



ISOVER, part of the Saint-Gobain group

For more than three centuries, Saint-Gobain has used its technological expertise and knowledge of markets to supply products that reflect its customers' and partners' needs. Present in more than 64 countries, the Saint-Gobain Group has earned a reputation for innovation, responsiveness and productivity through its ability to anticipate and provide solutions for its customers' increasingly complex needs.

ISOVER solutions for Eco Design

As the world's leading insulation company, ISOVER has highlighted the importance of effective insulation in technical areas such as Marine and Offshore, Industry, HVAC and Original Equipment Manufacturers (OEM).

We have used our recognised skills in innovation to bring:

- Effective energy management
- Cost efficiency
- Improved thermal insulation
- Safety and sustainability
- Effective fire protection

ISOVER solutions for household appliances

Household appliances are at the center of our everyday lives. In this field, manufacturer constantly seek to improve quality, performance, productivity and competitiveness to stay ahead. This is where insulation plays an important role. By reducing thermal losses through the sides of the cooking oven, our insulation solutions help in optimizing the heating energy to significantly improve your appliances efficiency.

ISOVER solutions for Cooking Ovens

As a result of our commitment to satisfy our customers' needs, coupled with the quality of our products, we now enjoy strong working partnerships with leading household appliance manufacturers worldwide.

Through its worldwide customer base, ISOVER has built up a wide knowledge of the production needs of appliance manufacturers, including technical performance, product customization, working methods and logistics.

ISOVER has developed a specific range of glass wool products helping manufacturers to reach the highest energy classification.

Complying with standard regulations about Volatile Organic Compounds (VOCs), ISOVER solutions combine excellent thermal performance at high temperatures, up to 550°C.



ISOVER Material Range

For Cooking Ovens, ISOVER has developed specific glass wool products that combine cost efficiency with the highest standard of thermal insulation performance and the ability to operate at temperatures up to 550°C.

Made from up to 80% recycled glass and locally-sourced raw materials, like sand, ISOVER glass wool is also perfectly in line with environmental demands and sustainability.

Glass wool:

A cutting edge material with key strengths perfectly combined by ISOVER:



Excellent thermal insulation



Complies with highest standards on VOC emissions



High operating temperature



Easy Handling



Cost effective solutions



Flexibility and compressibility



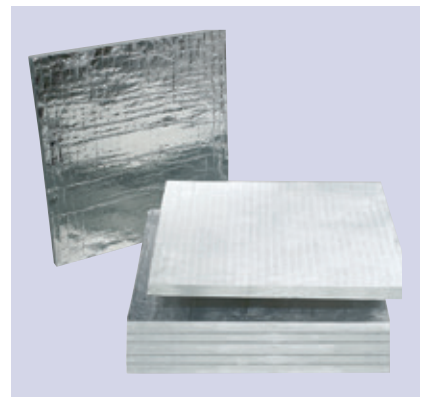
Active environmental protection



Unique lightness

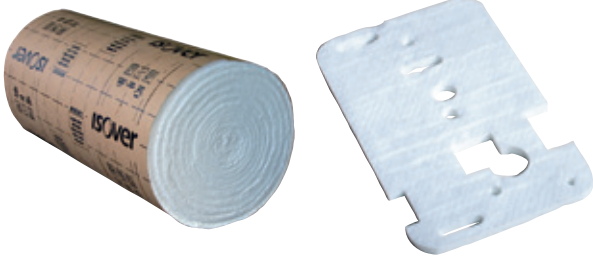


Incombustible – Fire reaction A1 rated

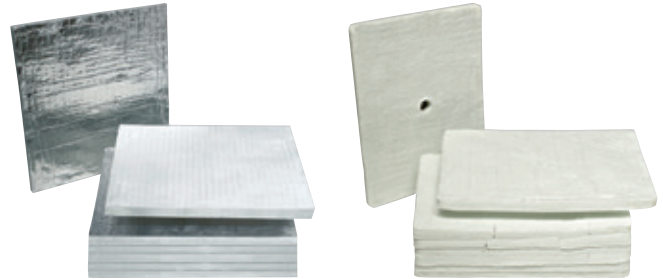


Your Product Compass

GW Ovens Ecoblanc



GW Ovens Needed Mat



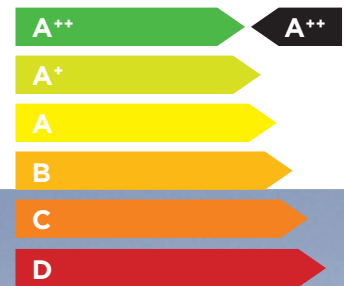
Product	Thickness	Dimensions	Emissions	Maximum Service Temperature
GW Ovens Needed Mat	10 to 40 mm	Customized dimensions of the parts. Dedicated design of the stamped areas.	Complies with the most stringent regulations on VOC emissions	Up to 500 °C in continuous service and 550 °C maximum by intermittence, with stable dimensions.
GW Ovens Ecoblanc	20, 25, 30 and 40 mm			Up to 350 °C in continuous service



Cooking Ovens Product Range

Benefit from high performance insulation solutions with ISOVER acoustic and thermal screens.

Isover products are designed to fit perfectly to the oven cavity. They enable to reduce efficiently the energy consumption of the oven. ISOVER offers the highest energy classification for household appliances.



1 Wrapper

2 Rear panel

Performance Guide: all your requirements in one product

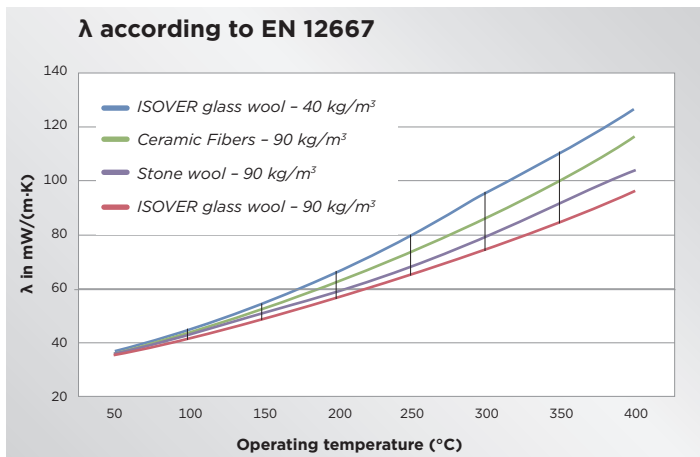
ISOVER has developed a wide range of high performance insulation products and materials to meet the demanding requirements of the cooking ovens market.



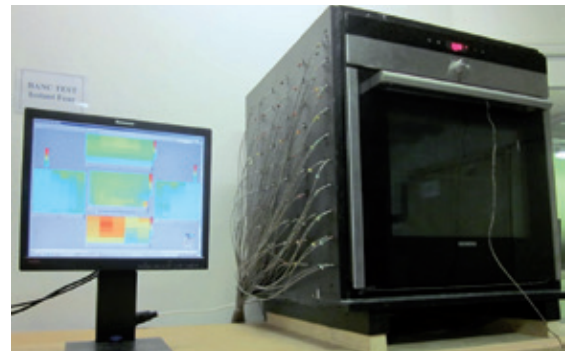
Efficient thermal insulation at low weight

Because ISOVER glass wool products are free of slugs and 100% converted from raw material into efficient insulation. They provide excellent thermal insulation performance at reduced weight.

With significant weight reduction when compared to conventional stone wool and ceramic fiber materials, ISOVER glass wool can deliver equal or better thermal performance. Since there is less insulation material to be heated up, ISOVER glass wool yields a better energy efficiency of the oven.



ISOVER is your partner to develop high-performing solutions to reach the highest energy efficiency classes. Our R&D teams provide testing facilities as well as tailor-made supports for you to develop tomorrow's cooking solutions.



Temperature Resistance

ISOVER products can sustain up to 550°C for peak temperatures. They are perfectly adapted to insulate self-cleaning, pyrolytic ovens. The time to reach the pyrolytic temperature with ISOVER

glass wool is reduced compared to stone wool insulation; enabling a reduction of the total energy consumption.



Lowest VOC emissions

With service temperatures in cookers up to 500°C, it is important that insulation products remain stable and efficient, without any release of organic compound, especially during the catalyze and pyrolyze cycles.

Being non-combustible, ISOVER glass wool products do not contain any organic compound and can therefore sustain high operating temperatures in the oven, without any risk related to VOC release.



Easy Handling

ISOVER glass wool products are easy to handle, mainly due to their flexibility and elastic fibre structure. Being free of slugs, ISOVER products have a noticeable grip-friendliness compared to stone wool. And with their longer fibres, they generate less dust handling and transportation.



Flexibility and compressibility

Thanks to their high flexibility, ISOVER glass wool products fit more easily around the cooking oven. They fit perfectly to the shape of the oven, thus reducing thermal losses around the corners of the cavity.

And even with their lower density, ISOVER glass wool products maintain good mechanical strength thanks to their intrinsic mechanical qualities.



Environment, Health & Safety

ISOVER solutions for cooking ovens are eco-design products made from up to 80% recycled material and are 100% recyclable.

ISOVER mineral wools are harmless to health in accordance with EU criteria, as demonstrated by the EUCEB and RAL quality labels «Products made of mineral wool».



Performing LCA on its glass wool products since 1994, ISOVER is your partner for ecodesign solutions.

LCA (Life Cycle Assessment) =
All steps of a product's life cycle, from production / extraction until removal / reuse.

From Cradle to Grave



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