

## HEALTH AND ENVIRONMENTAL PROTECTION

The incorporation of insulation material from mineral wool makes it possible to build healthy and comfortable living spaces as its properties improve the microclimate in a room and, at the same time ensure excellent thermal, sound and fire protection. Products are tested according to Directives 97/69/EC, for which they were granted the »Test Certificate of Bio-solubility«, demonstrating their health safety. Knauf Insulation products are also ecologically oriented, as they reduce the consumption of thermal energy sources, thereby reducing environmental pollution.

It is also of great importance that the production procedure of mineral wool is carried out in a closed circuit, i.e. production process waste is recycled in briquette manufacturing and then returned back to the production line.

As part of our policy of continuous product development, we reserve the right to revise specifications without notice. The information given in the brochure is correct to the best of our knowledge. It provides general information only and users should verify whether the products described are suitable for their specific requirements.



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## Domestic Appliances Insulation

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## MAIN PROPERTIES OF ROCK MINERAL WOOL PRODUCTS

- **THERMAL INSULATION PROPERTIES;** thermal conductivity of 0.035 – 0.040 (W/mK)
- **NON-COMBUSTIBILITY** - highest possible Euroclass A1 fire classification according to European standards (melting point above 1,000°C)
- **ENERGY SAVING MATERIAL;** for reduced energy bills and CO<sub>2</sub> emissions
- **HIGHLY SUSTAINABLE;** non-hazardous to personal health and the environment. Rock mineral wool is free from CFCs, HCFCs and any other material with ozone depletion potential in their manufacture and content and represents no known threat to the environment
- **PERMANENTLY STABLE DIMENSIONS;** products do not change in length or width with fluctuations in humidity or temperature
- **RESISTANCE TO MICRO-ORGANISMS;** rock mineral wool is non-hygroscopic, rot proof, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria
- **SUPERB ACOUSTIC PERFORMANCE,** due to the open fibrous structure rock mineral wool has the ability to absorb and reduce high levels of sound



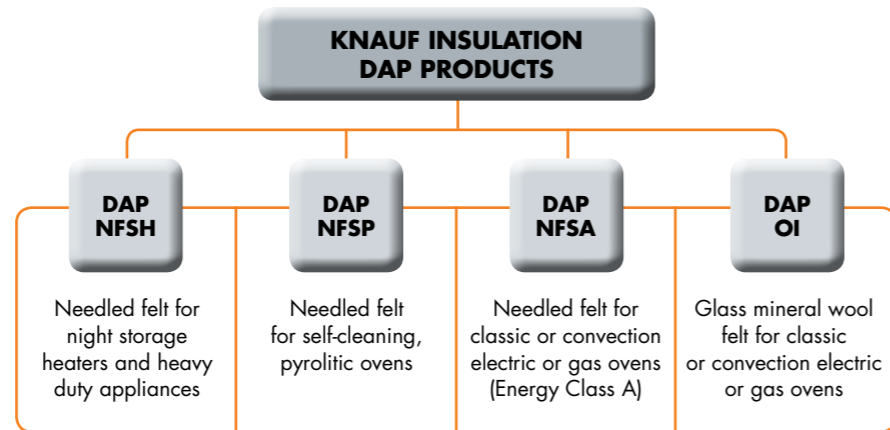
Producers of kitchen ovens are constantly looking for insulation materials that will increase energy efficiency, prevent transfer of heat from the oven to kitchen furniture and fulfill the highest demands of indoor air quality.

Knauf Insulation has a proven track record in the domestic appliances segment as a top insulation supplier to leading producers on the market. Mineral wool insulation products made by Knauf Insulation can be used for insulating all types of ovens. Knauf Insulation products contribute to higher appliance energy efficiency, to sustainable environment and to health protection.

**We deliver high quality products, excellent service and collaborate closely with our partners on their development projects.**

Depending on the type of product we provide total customized solutions for:

- Self-cleaning or pyrolytic ovens, where temperatures can exceed 750°C
- A Energy Label Class ovens
- B Energy Label Class ovens
- Night storage heaters and heavy duty appliances



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## KNAUF INSULATION DAP NEEDED FELT (DAP NFS) Needled mineral wool felt for household appliances

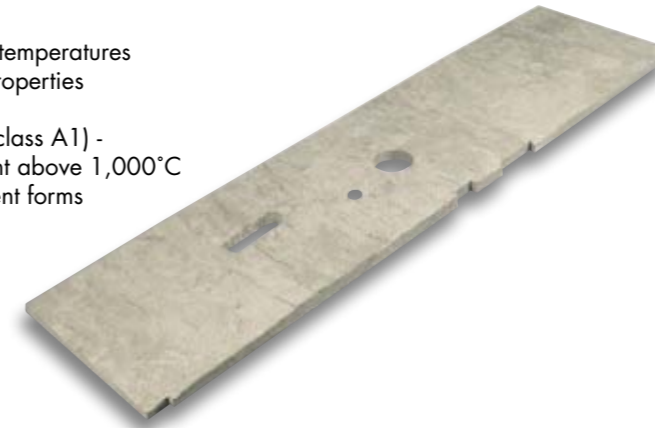
### DESCRIPTION

**KNAUF INSULATION DAP NFS** products are made of long mineral wool fibres specially needled to form a compact, dimensionally stable felt with high temperature stability. Because of the unique procedure for connecting the fibres, the felts do not contain organic binders and are almost entirely emission-free, even at the highest temperatures. Product dimensions are adapted to customer requirements.

**KNAUF INSULATION DAP Needled Felt products are made in compliance with RoHS Directive and in compliance with other, rigorous European standards.**

### PREFERENCES

- Preservation at high temperatures
- Thermal insulation properties
- Non-corrosive
- Fire protection (Euroclass A1) - material melting point above 1,000°C
- Adaptation of different forms
- Facing possibilities



### APPLICATION

- Insulation of **night storage heaters and heavy duty appliances** that meets or exceeds energy Class A standards (DAP NFSH)
- Insulation of **self-cleaning, pyrolytic ovens** where operating temperature may reach 750°C (DAP NFSP)
- Insulation of **classic or convection electric or gas ovens** that meets or exceeds energy **Class A standards** (DAP NFSA)

### TECHNICAL PROPERTIES

- Emissions: < 10 mg
- Operating temperature: ≤ 750°C

## KNAUF INSULATION DAP OVEN INSULATION (DAP OI) Glass mineral wool felt for household appliances

### DESCRIPTION

**KNAUF INSULATION DAP OI** is uniformly, textured, resilient, high temperature thermal and sound absorbing material composed of inorganic glass fibres bonded with a sustainable high temperature thermosetting binder. Because of the unique production procedure and innovative **ECOSE® Technology** - formaldehyde-free binder technology, final products contain low organic components only and are particularly well suited to household appliances. Product dimensions are adapted to customer requirements.

**Due to its revolutionary ECOSE® Technology Knauf Insulation DAP OI products do not cause any irritation at first ignition of the oven.**

### PREFERENCES

- Supreme thermal insulation properties
- Fire protection (Euroclass A1)
- Adaptation of different forms
- Complies with RoHS Directive
- Acquired certificates: RAL, ISO 9001, ISO 14001, OHSAS 18001



### APPLICATION

Insulation of **classic or convection electric or gas ovens** that meets or exceeds energy **Class A standards**

