

KNAUF INSULATION DAP GNF

November 2022

Needled glass mineral wool felts for pyrolytic, electric or gas ovens.



DESCRIPTION

Knauf Insulation DAP GNF products are made of long glass mineral wool fibres specially needled to form a compact, dimensionally-stable felt with high temperature stability and optimal thermal insulation properties.

Due to its insulation performance standards, it can be used for insulating classic or convection, electric or gas ovens that meet or exceed energy efficiency Classes A++ / A+ / A. Product dimensions, sections, die-cuts and facing options can all be adapted to customer requirements.

Owing to the unique fibre bonding process, the felts do not contain organic binders or process aids and therefore comply with LGA test for contaminants, valid for mineral fibres in cookers and ovens. With this special production process we are able to guarantee that no emissions of odours and/or harmful substances are emitted during the use of ovens and cookers even at the highest temperatures.

Needled felts are tested for the presence of the restricted substances and comply to the RoHS directive and REACH regulation.

PERFORMANCE

Maximum service temperature

DAP GNF has a maximum service temperature of 550 °C

Thermal insulation

Optimal thermal insulation properties ensure ideal energy efficiency and energy consumption

Certified quality

LGA Certified
Complies with RoHS Directive
Complies with REACH Regulation
RAL
EUCEB

BENEFITS

- ✓ High temperature stability and resistance
- ✓ Thermal insulation properties ensure optimal energy efficiency and energy consumption
- ✓ Non-corrosive insulation material (AS Quality)
- ✓ Fire protection (European Class A1) – material melting point above 750 °C
- ✓ Fire Hazard Classification FHC 0/0
- ✓ No organic binders
- ✓ Emission-free
- ✓ Custom forms and sections
- ✓ Can be laminated with aluminium foil or glass veil

APPLICATION

Insulation of classic or convection, electric or gas ovens that meet or exceed energy Class A++ / A+ / A standards.

STANDARD DIMENSIONS

Thickness _____ 10 - 30 mm _____

STANDARDS

Technical properties of Knauf Insulation DAP GNF are declared in accordance with EN 13162.

Knauf Insulation DAP GNF is manufactured in accordance with ISO 9001 Quality Management Systems, ISO 14001 Environmental Management Systems, ISO 50001 Energy Management Systems and ISO 45001 Occupational Health and Safety Management Systems as certified by TÜV Nord.

CERTIFICATES



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TECHNICAL PROPERTIES

Characteristics	Symbol	Value					Unit	Standard
Reaction to fire	-	Euroclass A1					-	EN 13501-1
Melting point	-	750					°C	DIN 4102/T17
Maximum service temperature	ST(+)	550					°C	EN 14706
Water vapour diffusion resistance factor	μ	1					-	EN ISO 10456
Protection against corrosion	-	AS Quality					-	ASTM C795-08
Thermal conductivity in relation to temperature (Θ/λ) EN 14303	T_m	50	100	150	200	250	°C	EN 12667
	λ	0.034	0.041	0.049	0.057	0.067	W/mK	
Formaldehyde emissions at 350 °C	-	≤ 2					mg/kg	DIN ISO 16000-3
Fluoride emissions at 350 °C	-	$\leq 0,3$					mg/kg	EN ISO 10304-1
Release of MIC	-	$< 0,005$					mg/kg	ISO 17734-1
Surface burning characteristics	CFC ¹⁾	0					-	UL 723 ASTM E84
	FSI ²⁾	0					-	
	CSD ³⁾	0.0					-	
	SDI ⁴⁾	0					-	

¹⁾ CFS - Calculated Flame Spread

²⁾ FSI - Flame Spread Index

³⁾ CSD - Calculated Smoke Developed

⁴⁾ SDI - Smoke Developed Index

HANDLING & STORAGE

Knauf Insulation DAP GNF is packed on a wooden or plastic pallet. Felts are covered with PE foil or wrapped twice with stretch foil, which is designed for short-term protection only. It is recommended to store the product either indoors, or under a cover and off the ground, for a maximum of up to 12 months. If the material becomes damp on location, ensure the moisture evaporates before placing the felts into a manufacturing process.

The performance of DAP GNF depends on the customer's manufacturing process. Individual customers must optimize and control their manufacturing process to ensure the material meets the requirements of their manufacturing process and their final product.



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challenge.
create.
care.