

KNAUF INSULATION DAP HP

June 2022

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



PERFORMANCE

Maximum service temperature

DAP HP has a maximum service temperature of 550 °C

Thermal insulation

Supreme thermal insulation to achieve the highest energy efficiency of domestic ovens.

Certified quality

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

APPLICATION

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

CERTIFICATES



DESCRIPTION

Knauf Insulation DAP HP products are made of long mineral wool fibres, specially heat treated to form a compact, dimensionally-stable felt with excellent horizontal fiber orientation. Felts without binder or needling deformations achieve the highest thermal resistance; heat treated surface at the same time prevents practically any release of dust.

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.

Unique production process is free of additives, product is therefore compliant with LGA test for contaminants, valid for mineral fibres in cookers and ovens. With this special process we guarantee no emissions of odors and/or harmful substances are emitted during the first use of appliance or during the production process itself.

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

BENEFITS

- ✓ High temperature stability and resistance
- ✓ Thermal insulation properties ensure supreme energy efficiency and energy consumption
- ✓ Non-corrosive insulation material (AS Quality)
- ✓ Heat treated surface prevents practically any release of dust
- ✓ 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

STANDARDS

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

Knauf Insulation DAP HP 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.

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TECHNICAL PROPERTIES

Characteristics	Symbol	Value												Unit	Standard
Thickness	-	10 - 40												mm	-
Density	-	40 - 100												kg/m³	-
Reaction to fire	-	Euroclass A1												-	EN 13501-1
Max. 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	300	350	400	450	500	550	°C	EN 12667	
	λ	0.034	0.039	0.045	0.052	0.060	0.070	0.081	0.093	0.108	0.125	0.144	W/mK		
Formaldehyde emmissions at 350 °C	-	≤ 2												mg/kg	DIN ISO 16000-3
Fluoride emissions at 350 °C	-	≤ 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

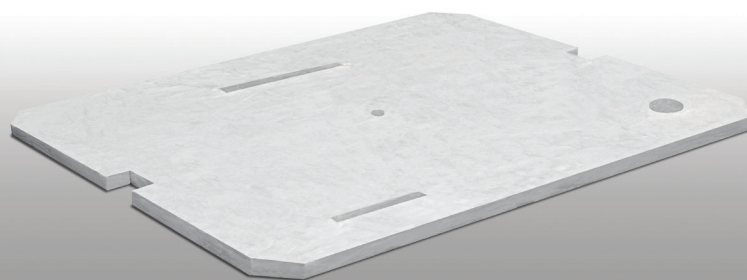
³⁾ CSD – Calculated Smoke Developed

⁴⁾ SDI – Smoke Developed Index

HANDLING & STORAGE

Knauf Insulation DAP HP 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 HP 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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