

## KNAUF INSULATION DAP OI

July 2023

Glass mineral felts for electric or gas ovens, with or without self-cleaning function.



### PERFORMANCE

#### Maximum service temperature

DAP OI has a maximum service temperature of 550 °C

#### Thermal insulation

Optimal thermal insulation properties ensures ideal energy efficiency and energy consumption

#### Certified quality

Complies with RoHS Directive  
RAL  
EUCEB  
Complies with REACH Regulation

### APPLICATION

Insulation of **electric or gas ovens with or without a self-cleaning function** that meet or exceed energy Class A, A+ and A++ standards.

### CERTIFICATES



### DESCRIPTION

**Knauf Insulation DAP OVEN INSULATION (DAP OI)** is a high-temperature thermal- and sound-absorbent glass mineral wool felt composed of inorganic glass fibres and bonded with a revolutionary ECOSE® Technology binder derived primarily from rapidly renewable materials and with no added formaldehyde. Product dimensions, sections, die-cuts and facing options can all be adapted to individual customer requirements.

Due to the revolutionary ECOSE® Technology, Knauf Insulation DAP OI products do not produce any unpleasant odour upon initial ignition of the oven.

Mineral felts are tested for the presence of restricted substances and comply with the RoHS directive.



### BENEFITS

- ✓ Thermal insulation properties ensure optimal energy efficiency and energy consumption
- ✓ Good temperature stability and resistance
- ✓ No unpleasant odour upon ignition of oven
- ✓ Non-corrosive insulation material (AS Quality)
- ✓ Fire protection (Euroclass A1)
- ✓ Custom forms and sections

### STANDARDS

**Technical properties of Knauf Insulation DAP OI are declared in accordance with EN 14303.**

Knauf Insulation DAP OI 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
Reaction to fire	-	Euroclass A1					-	EN 13501-1
Max. service temperature	ST(+)	550					°C	EN ISO 18097
Protection against corrosion	-	AS Quality					-	ASTM C795-08
Thermal conductivity in relation to temperature ( $\lambda$ ) EN 14303	$T_m$	Density	50	100	150	200	250	°C
	$\lambda$	15 kg/m <sup>3</sup>	0.039	0.052	0.067	0.085	0.107	W/mK
		20 kg/m <sup>3</sup>	0.037	0.048	0.061	0.076	0.094	
		25 kg/m <sup>3</sup>	0.037	0.046	0.056	0.069	0.085	
		30 kg/m <sup>3</sup>	0.036	0.043	0.052	0.064	0.077	
40 kg/m <sup>3</sup>	0.036	0.042	0.051	0.063	0.077			
Surface burning characteristics	CFC <sup>1)</sup>	0					-	UL 723 ASTM E84
	FSI <sup>2)</sup>	0					-	
	CSD <sup>3)</sup>	0.0					-	
	SDI <sup>4)</sup>	0					-	

<sup>1)</sup> CFS – Calculated Flame Spread

<sup>2)</sup> FSI – Flame Spread Index

<sup>3)</sup> CSD – Calculated Smoke Developed

<sup>4)</sup> SDI – Smoke Developed Index

### HANDLING & STORAGE

Knauf Insulation DAP OI 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 OI 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.