

## KP 12

### Keratherm Thermal Grease



Keratherm Thermal Greases are ceramic-filled single-component silicones with a high thermal conductivity. The non-cross-linked thermal compounds do not dry out. The silicone components do not leak from the compound.

The silicone-free thermal compound KP 12 consists of synthetic, thermal polymers and is suitable for a fast and effective heat dissipation. The paste is particularly suitable for silicone sensitive applications.

## Applications

- Notebooks
- Desktop CPU's
- IGBT unit

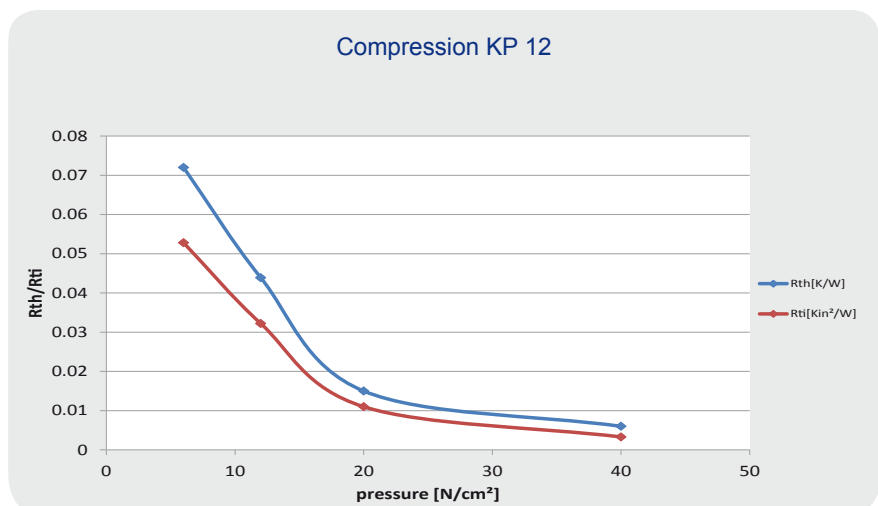
Properties	Unit	KP 12 silicone free
Colour		silver
Compound		
<b>Thermal Properties</b>		
Thermal resistance Rth	K/W	0.006
Thermal impedance Rti	°Cmm <sup>2</sup> /W	2.2
	Kin <sup>2</sup> /W	0.0033
Thermal conductivity λ	W/mK	10
<b>Electrical Properties</b>		
Electrical conductivity (according to DIN 51412-1)	pS/m	53
<b>Mechanical Properties</b>		
Measured thickness (+/-10%)	mm	0.025
<b>Physical Properties</b>		
Application temperature	°C	
Density	g/cm <sup>3</sup>	1.4
Viscosity	Pas	30 - 60
Total mass loss (TML)	Ma.-%	< 0.1
Possible thickness	mm	
<b>Long term stability (1000h /85°C / 85% relative humidity)</b>		
Thermal resistance 1000h	K/W	0.006

\* Shear rate 4s<sup>-1</sup> / 25°C

The KP's long-term stability guarantees full operability during the entire life time of the product. Under normal application conditions, Keratherm Thermal Grease does not cure, dry out or melt.

Special storage of Keratherm "Thermal Grease" is not required, therefore it can be stored under normal climate conditions for up to 12 months after manufacturing date.

If any separation of the filler materials becomes evident, the KP's must be mixed thoroughly before use.



### **Important notes**

The data presented in this leaflet are in accordance with the present state of our knowledge. All statements, technical information and recommendations herein are based on tests we believe to be reliable. The customer is thereby not absolved from carefully checking all supplies immediately on receipt. The recommendations made in this catalogue should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection there with. We reserve the right to alter product constants within the scope of technical process or new developments. The recommendations do not absolve the customer from the obligation of investigating the possibility of infringement of third parties right and, if necessary, clarifying the position. Sellers' and manufacturer' only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable either in tort or contract for any loss or damage, direct or incidental, or consequential, including loss of profits or revenue arising out of the use or the inability to use a product. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer.

**28-04-2015**