

## Thermal conductive paste

### Silicon thermal transfer compound

– thermal conductive paste used to reduce the thermal transmission resistance between semiconductor and heatsink



art. no.	basin	delivery quantity [g]
WLP 004	box	4
WLP 035		35
WLP 500		500
WLP 300 S	cartridge (310 ml)	300
WLP 500 S		500

### Silicone-free thermal transfer compound

– thermal conductive paste used to reduce the thermal transmission resistance between semiconductor and heatsink



art. no.	basin	delivery quantity [ml]	delivery quantity [g]
WLPF 05	syringe	2	—
WLPF 10		5	
WLPF 20		10	
WLPF 50		20	
WLPF 300 S	cartridge (310 ml)	—	300

	WLP	WLPF
<b>composition</b>	silicone oil, inorganic filling material	silicone free synthetic liquid. Metal oxide filling.
<b>specific electrical resistance</b>	$> 10^{12} \Omega/\text{cm}$	
<b>flashpoint</b>	none (DIN 53213)	
<b>drop point</b>	$> 260^\circ\text{C}$	
<b>thermal resistance</b>	no bleeding at (4 h/200°C)	
<b>acid number</b>	$< 0.01 \text{ mg KOH/g}$	
<b>consistance</b>	pastey	
<b>colour</b>	white	white-grey
<b>density</b>	1.1 g/cm <sup>3</sup>	
<b>thermal conductivity</b>	0.61 W/m·K	0.5 W/m·K
<b>temperature range</b>	-40°C ... +250°C	-40°C... +150°C
<b>solubility in water</b>	insoluble	
<b>oil separation (thickener)</b>		$\leq 2\%$ (40°C / 168h)
<b>flow pressure at 20°C (thickener)</b>		$\leq 200 \text{ mbar}$
<b>kinetic viscosity (base oil)</b>		ca. 90 mm <sup>2</sup> /s (40°C) ca. 13 mm <sup>2</sup> /s (100°C)

A

## Thermal conductive paste

B

### Ceramic filled, silicone-free thermal conductive paste with high thermal conductivity

- suitable especially for silicone-sensitive applications
- no drying out, hardening or melting of the thermal conductive paste
- high long-term stability
- further package sizes, container types such as cans, cartridge, etc. upon request

C

D

E



F

art. no.	basin	delivery quantity [ml]
<b>WLPK 3</b>	syringe	3
<b>WLPK 5</b>		5
<b>WLPK 10</b>		10
	<b>WLPK</b>	
<b>composition</b>	silicone-free, synthetic fluid ceramic filled	
<b>consistance</b>	pastey	
<b>colour</b>	silver	
<b>density</b>	1.4 g/cm <sup>3</sup>	
<b>thermal conductivity</b>	10 W/m·K	
<b>temperature range</b>	-60°C ... +150°C	
<b>dielectric strength</b>	not applicable, because conducting	
<b>solubility in water</b>	insoluble	

G

H

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