

# FDLV18

## THERMAL CONDUCTIVE GAPFILLER

The FDLV-18 is solvent free gap filler liquid based on a 2K silicone elastomer with 1.8 W/mK, 15 kV/mm and a viscosity of < 7000mPas.

In comparison to other gapfiller liquids the viscosity is 1/10. Therefore, the material “flowing like water”, has the advantage of self-leveling and filling up every corner like a common potting material



Properties	Unit	FD18
Base material	-	filled silicone gel
Color	-	Green White
<b>Thermal Properties</b>		
Thermal conductivity through	W/mK	1.8
Thermal Resistance Tth	K/W	0.69
Operating temperature	°C	-40 up to 200

Ordering example:

**FDLV-18**

**FD = Filler Dispensable / LV = Low Viscosity / 18 = 1.8 W/mK**

# FDLV18

## THERMAL CONDUCTIVE PUTTY

Properties	Unit	FDLV-18	Test Method
Color	-	Green/White	Visual
Base material	-	Silicone	-
Mixing ratio	-	1 : 1	-
Curing	T( °C )	1h ; 25°C	-
<b>Thermal Properties</b>			
Thermal conductivity through	W/mK	1.8	ASTM D5470
Operating temperature	°C	-40 to 200	-
Thermal Resistance T <sub>th</sub>	K/W	0.69	According factory test
<b>Electrical Properties</b>			
Dielectric Breakdown E <sub>d;ac</sub>	kV/mm	15.0	ASTM D149
Breakdown voltage U <sub>d;ac</sub>	kV	7.5	ASTM D149
<b>Mechanical Properties</b>			
Measured thickness ( +/- 10%)	mm	0.5	ASTM E 252
Hardness	Shore 00	55 -75	ASTM D 2240
<b>Physical Properties</b>			
Viscosity	mPas	2000 - 7000	Viscosity meter
Density	g/cm <sup>3</sup>	2.3	-
Flame rating	UL-94	V-0	According factory test
Total mass Loss (TML)	Ma. -%	<0.17	ASTM E 595
Possible thickness	Mm	0.2 - 5.0	ASTM252

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 therewith. 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