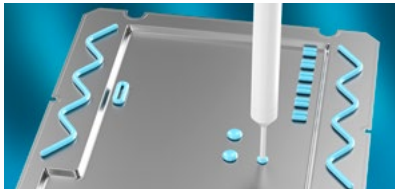


DISPENSABLE TWO PART GAP FILLERS

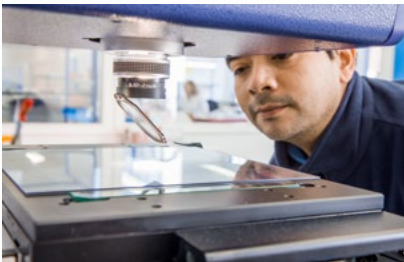
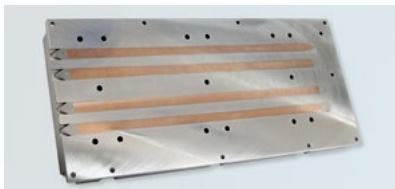
- Ultra-Conforming at almost ZERO Pressure
- Maximum Tolerance Compensation – from almost ZERO to some mm
- Excellent Thermal, Mechanical and Chemical Stability
- Minimized Siloxane Volatility for Silicone Sensitive Applications

OUR PRODUCTS:
TDG-L-SI-2C-Y with 2.0 W/mK
TDG-T-SI-2C with 3.0 W/mK
TDG-U-SI-2C with 3.6 W/mK
TDG-W-SI-2C with 4.5 W/mK
TDG-Y-SI-2C with 6.0 W/mK



STRIVING FOR OPTIMIZED THERMAL SYSTEMS

Innovative heat pipe solutions for heat transfer and heat spreading to meet a wide range of application challenges in Electric and Hybrid Vehicles.

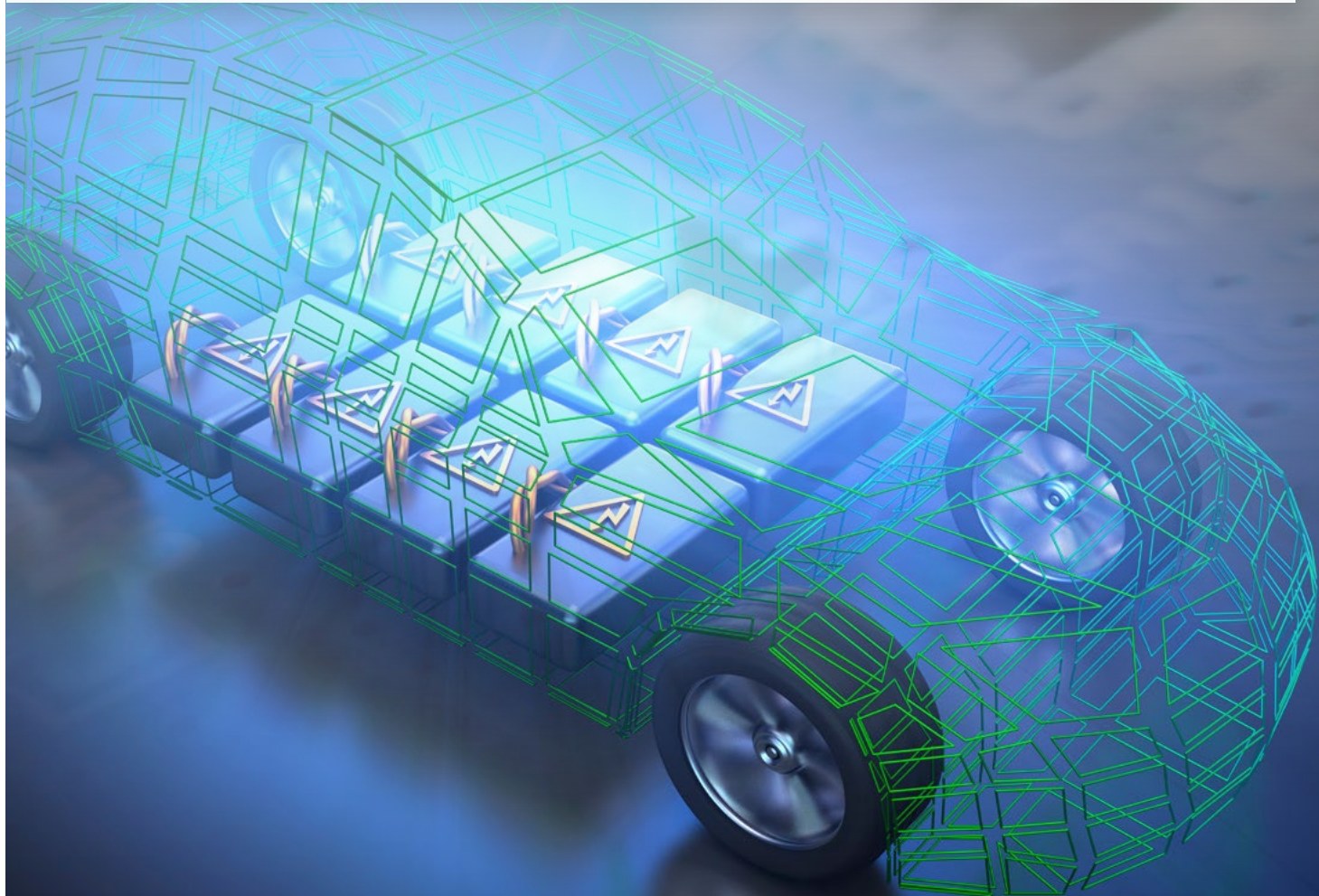


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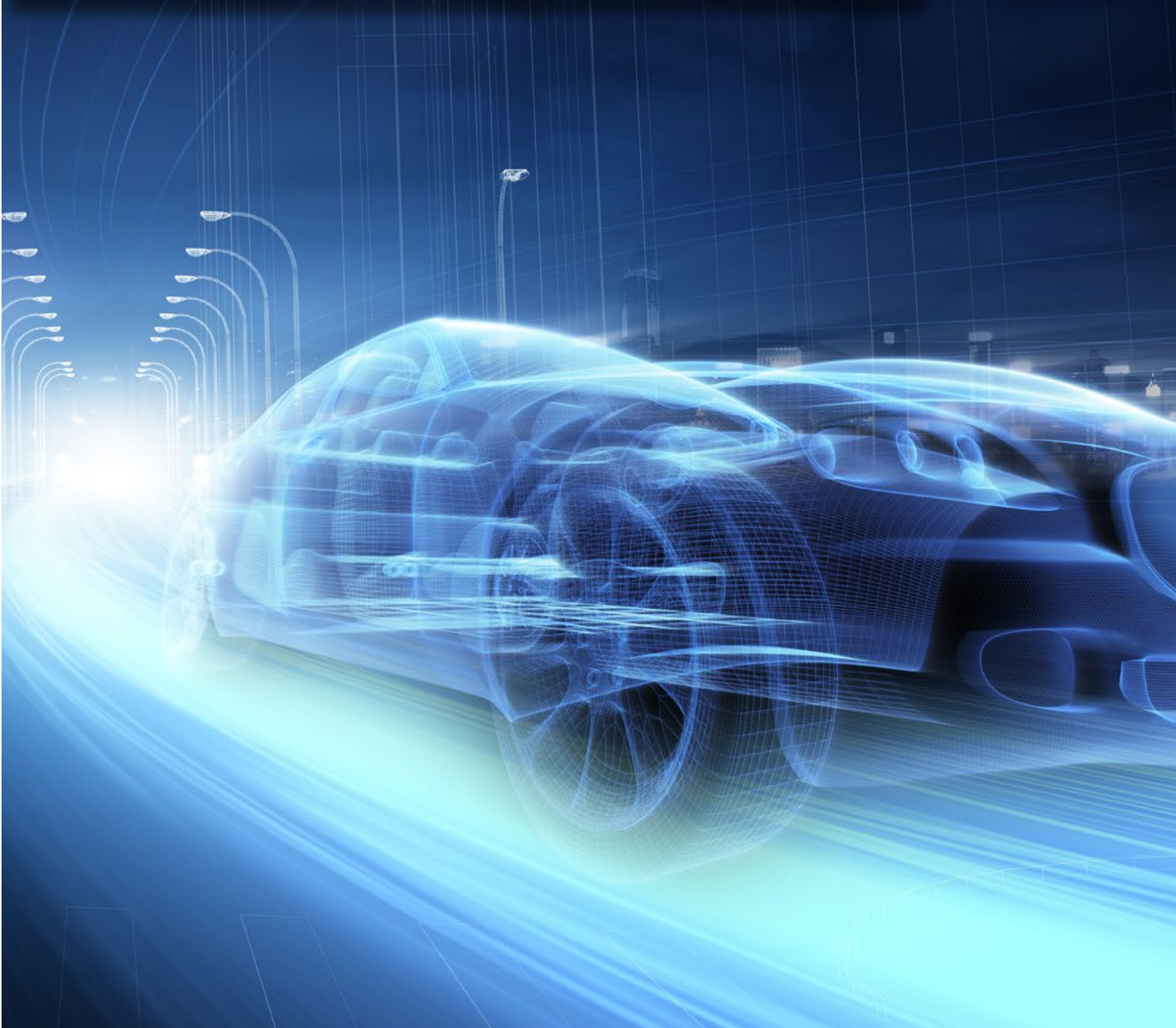
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ADVANCED THERMAL
INTERFACE MATERIALS
AND SOLUTIONS

FOR E-MOBILITY



SOLUTIONS FOR E-MOBILITY

- Excellent Thermal Performance
- Silicone or silicone-free
- High Reliability under Harsh Conditions
- Lasting Mechanic, Thermal, Chemical Stability
- Stringent Cost-Efficiency
- Automated Assembly and Dispense
- Extending Life Time
- Reducing Power Consumption

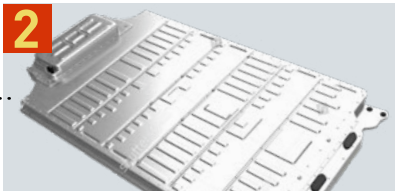
EXTENDED RANGE OF THERMALLY CONDUCTIVE INTERFACE MATERIALS

- Gap filler pads – silicone or silicone-free
- Dispensable 2 part gap fillers
- Silicone caps
- PSA tapes
- Foils and highly dielectric films
- 1 part silicone adhesives
- 2 part silicone or PU encapsulants
- Phase change films and compounds

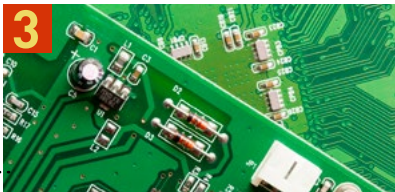
Battery Charger



Battery Packs



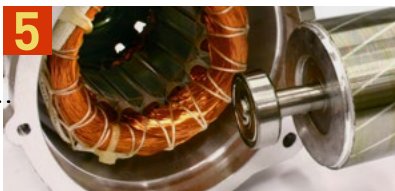
Battery Management Systems (BMS)



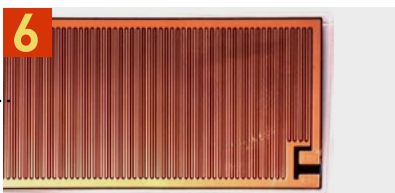
Power Converter / Inverter



Motor / Generator



PTC Heater



LED Systems



TYPE	PRODUCT	DATA						Where to be used in an Electric or Hybrid Vehicle						
		Color	Thermal Conductivity [W/mK]	Thermal Resistance @ 0.2 mm 150 PSI [°C-inch²/W]	Dielectric Breakdown @ 0.2 mm [kV (AC)]	Glass Fibre Mesh Reinforcement	Optional 1-side Adhesive	1 Battery Charger	2 Battery Packs	3 Battery Management Sys-tems (BMS)	4 Power Converter / Inverter	5 Motor / Generator	6 PTC Heater	7 LED Systems
Silicone Foils	TF0-X-SI	White	5.0	0.11	3.0	X	X	XX		XX	XX		XX	XX
	TF0-R-SI	White	3.5	0.16	3.0	X	X	XX		XX	XX		XX	X
	TF0-K-SI	Grey	2.5	0.24	2.0		X	XX		XX				X
	TF0-Q-SI	Pink	4.0	0.20	4.8	X	X				X		XX	
	TF0-O-SI	Grey	3.0	0.22	5.0	X	X	XX		X	XX		XX	X
Highly Dielectric Silicone Foils	TF0-J-SI	Brown	2.0	0.31	5.0	X	X	XX					X	X
	TCP-J-SI	Pink	1.5	0.68	10			X			X			
Silicone Caps		Color	Thermal Conductivity [W/mK]	Hardness [Shore 00]	Dielectric Strength [kV/mm]	Glass Fibre Laminate Reinforcement	Optional 1-side non tacky							
	SiG-F-WSS-SI	Grey	5.5	55	10		X	XX		XX				
	SiG-F-VUS-SI-A1	Reddish Black	5.0	50	7			XX	X	XX	X			
	SiG-F-TSS-SI	Purple	3.2	37	15			XX	X	X				
	SiG-F-RUS-SI-A1	Light blue	3.0	40	10			XX	XX	X	X			
Silicone-free Gap Filler Pads	SiG-F-RSS-SI	Light blue	3.0	43	7	X		XX	X	X				
	SiG-F-LSS-SI	Light beige	2.5	34	7	X		XX	X	X				X
	SiG-F-M-SI	Blue	2.5	50	10		X	X		XX				
	SiG-F-VP-SI	Grey	5.5	60	5		X	X	X	XX	X			
	SiG-F-JXS-SI-A1	Blue / Grey	2.0	20	10			X	XX	X				
	SiG-F-GXS-SI-A1	Pink	1.5	20	10			X	XX	X	XX			
	SiG-F-AXS-SI-GF	White / Pink	1.1	5	8	X		X	XX	X				X
	SiG-F-R-NS	White	3.0	75	7.8			X		X	XX			
	SiG-F-W-NS	White	6.0	70	7.8			XX		XX	X			
	SiG-F-NS-NS	Brown	2.5	47	1.9			X	X	X	X			X
Dispensable 2 Part Silicone Gap Fillers		Color	Thermal Conductivity [W/mK]	Hardness [Shore 00]	Dielectric Strength [kV/mm]	Density [g/cm³]	Viscosity Brookfield mixed @ 10 rpm [Pas]							
	TDG-Y-SI-2C	Dark Blue / White	6.0	60	10	3.40	235	XX	X	XX	XX			
	TDG-U-SI-2C	Blue / White	3.6	38	10	2.85	260	X	X	X				
	TDG-V-SI-2C	Blue / White	4.2	50	10	3.00	240	XX	X	XX	X			
	TDG-T-SI-2C-LW	Blue / White	3.0	55	10	2.20	300	XX	XX	XX				
PSA Tapes	TDG-L-SI-2C-Y	Yellow / White	2.0	52	10	1.90	260	XX	XX	XX		XX		
		Color	Thermal Conductivity [W/mK]	Hardness [Shore 00]	Dielectric Strength [kV (AC)]	Peel Off @ Al [N/cm]	Thickness [mm]							
	TAT-I-AC-PET	Yellowish White	1.5	0.71	15	6.0	0.20							XX
		Color	Thermal Conductivity [W/mK]	Hardness [Shore A]	Curing	Density [g/cm³]	Viscosity Brookfield [Pas]							
	1 Part Silicone Adhesives	TAD-P-SI-1C	Grey	2.30	67	Condensational	2.11	350	X		X	X		XX
2 Part Silicone Encapsulant	TAD-O-SI-1C	Grey	2.10	56	Additional	2.18	140	XX		XX	XX			
	TAD-G-SI-1C	Grey	1.38	67	Additional	2.06	43	XX		XX	XX			
		Color	Thermal Conductivity [W/mK]	Hardness	Curing	Density [g/cm³]	Viscosity Brookfield mixed [Pas]							
Phase Change Film	TCR-H-SI-2C	Light grey / Orange	1.2	40 (Shore A)	Additional	2.2	1.95					X		
	TCR-D-SI-2C	Beige / Black	0.68	32 (Shore A)	Additional	1.60	4.5					XX		
Heat Pipe Assembly		Color	Thermal Conductivity [W/mK]	Thermal Resistance @ 150 PSI [°C-inch²/W]	Phase Change Temperature	Carrier	Thickness [mm]							
	TPC-W-PC	Grey	3.5	0.01	45		0.1, 0.2, 0.3	X		X	XX			X
Heat Pipe Heat Spreading	TPC-T-AL-CB	Black		0.01	50	Aluminum	0.076, 0.102	XX		X	XX			XX
		Function	Thermal Conductivity [W/mK]	Heat Pipe Material	Temperature Range	Filler	Assembly							
		Heat Transfer Heat Spreading	> 5000 W/mK	Copper	0 to 200 °C	Deionised water	Aluminum / Copper	XX		XX	XX	X		XX