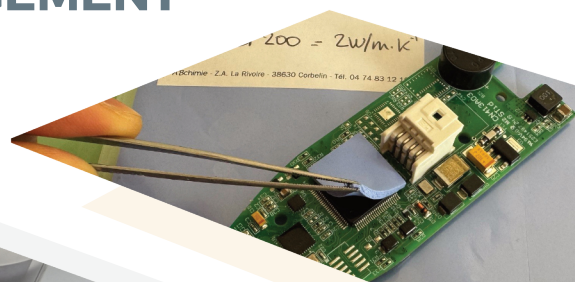


THERMAL MANAGEMENT



Thermal dissipation is a major challenge for the reliability and lifetime of electronic equipment. ABChimie offers three ranges of thermal management products: pastes, pads gels and elastomers. Their solutions optimize heat transfer, protect sensitive components, and guarantee long lasting performance, even in the most demanding environments.

Thermal Pastes – PET 30 / 50 / 70 / 90

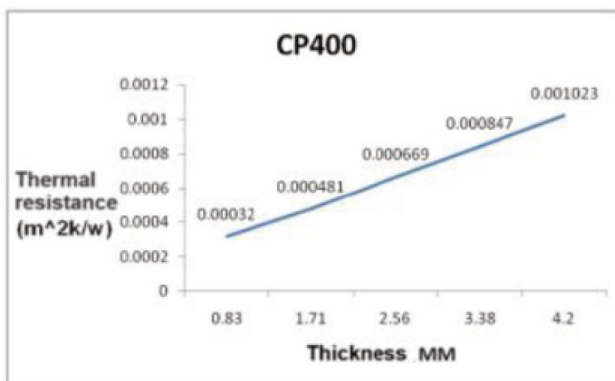
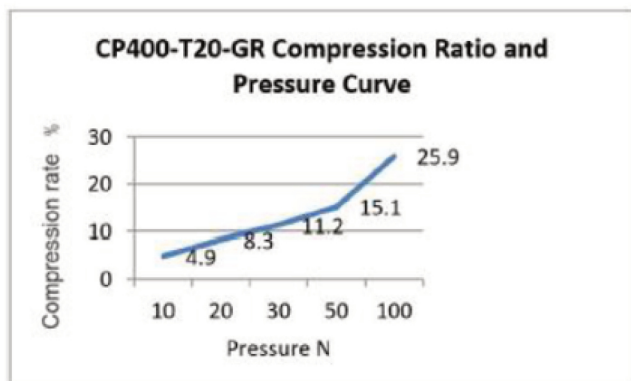
- Silicone easy to apply (Syringe, jar)
- Thermal conductivity from 1 to 4 W/m·K
- Excellent cost-effectiveness, low volatility, UL94 V0
- Applications: CPU, IGBT, Batteries, Power modules

	PET30	PET50	PET70	PET90
Thermal Conductivity (W/m·K)	1,0 ± 0,3	2,0 ± 0,3	3,0 ± 0,3	4,0 ± 0,3
Operating Temperature (°C)	-50 à +200	-50 à +200	-50 à +200	-50 à +200
Color	Grey	Grey	Grey	White/ Grey
Packaging	1 / 5/10 kg	1 / 5/10 kg	1 / 5/10 kg	1 / 5/10 kg

Thermally Conductive Pads – CP200 / 400 / 600

- Flexible and compressible silicone
- Easy to handle and apply manually
- High electrical insulation (≥ 10 kV/mm)
- Thermal conductivity from 2 to 6 W/m·K
- Thickness up to 20 mm, customizable cuts available
- Applications: LED, Converters, Medical, Telecom, 5G

	CP200	CP400	CP600
Thermal Conductivity (W/m·K)	2,0	4,0	6,0
Available Thickness	0,3 à 20 mm	0,3 à 20 mm	0,3 à 20 mm
Shore C Hardness	20 - 50	20 - 50	20 - 50
Operating Temperature (°C)	-40 à +150°C	-40 à +150°C	-40 à +150°C
Flame Rating	UL94 V0	UL94 V0	UL94 V0



Compression ratio and thermal resistance as a function of thickness

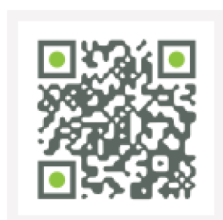
Gels and Gap-Filling Elastomers

Thermosink 35-5: soft elastomer that absorbs mechanical stress while providing thermal conductivity up to 3.5 W/m·K.

TCG 200 (thermally conductive gel): available in one-component **(1P)** or two-component **(2P)** versions.

- Excellent compressibility and thermal resistance
- Good electrical insulation (up to 10 kV/mm)
- Thermal conductivity: 2 W/m·K
- Applications: Automotive, Telecoms, Batteries, Optoelectronics

	Thermosink 35-5	TCG 200 1P	TCG 200 2P
Type	Elastomer	One-component gel	Two-component gel
Thermal Conductivity (W/m·K)	$\leq 3,5$	$2,0 \pm 0,2$	$2,0 \pm 0,2$
Operating Temperature (°C)	-40 à +150°C	-40 à +150°C	-40 à +150°C
Key Properties	Flexible, absorbs stress	High compressibility	Low viscosity, adjustable curing



Find all detailed products
on our website

ABchimie team is comprised of research, application and sales engineers and are here to assist you, using their expert knowledge and vast experience to provide precise solutions.