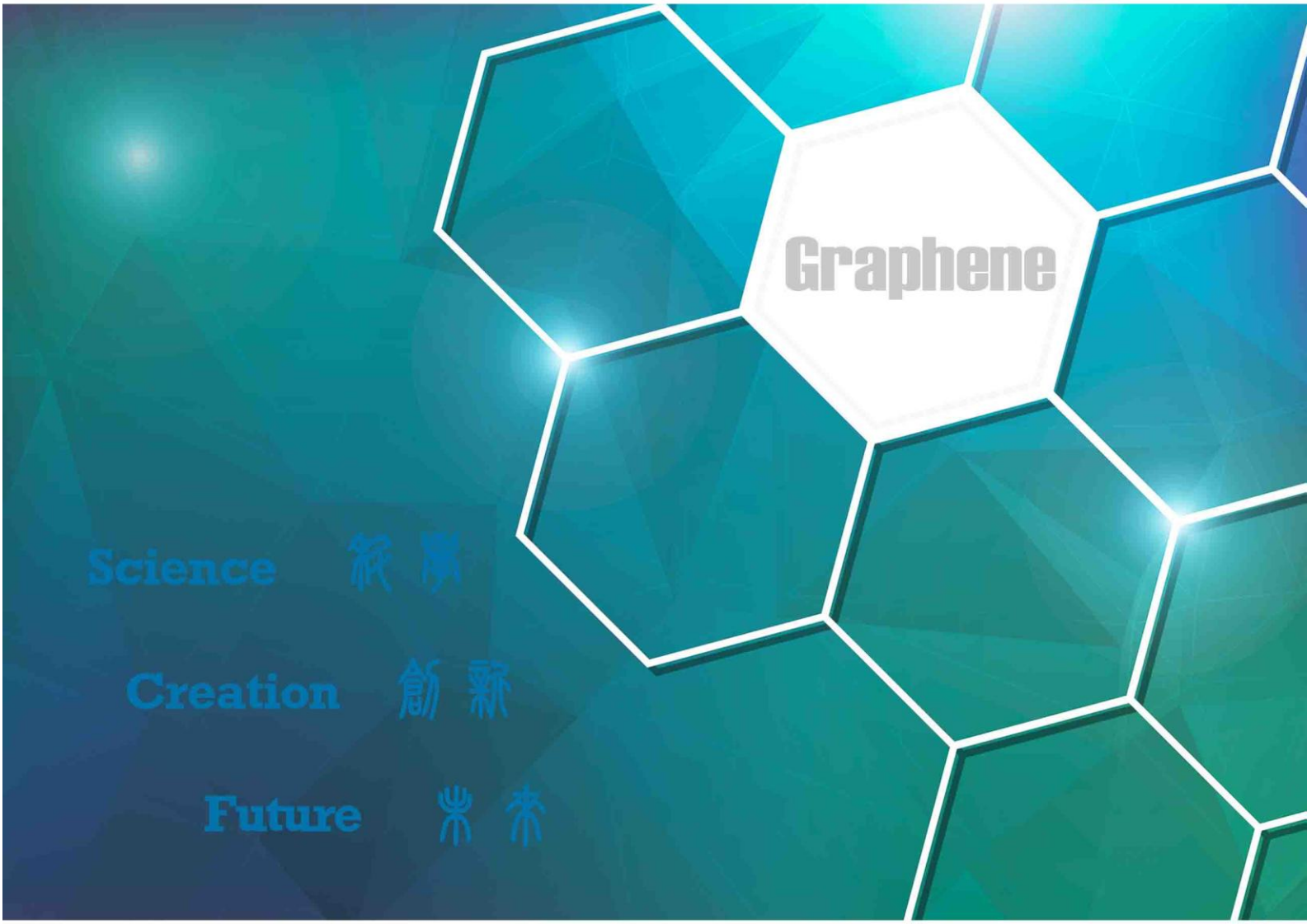
Nanotech

Graphene

Thermal Conductive Graphene Silicone Grease

Product manual



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Thermal Conductive Graphene Silicone Grease

【Product Introduction】

Graphene modified silicone grease, also called heat dispersion silicone grease, thermal paste, thermal conductive paste, exhibits high thermal conductivity and heat irradiation performance. To spread the grease onto the gap between the contact surface, it is widely applied for microelectronic devices, electronic components, radiator assembly surfaces, and electrical equipment to disperse and irradiate heat that is generated from the devices. This lowers the working temperature dramatically, improves product reliability, and prolongs its life time.

【Main Components】 Organosilicone、graphene mixed heat conductive fillers

【Product Numbers】 DS - 30, DS - 40, DS - 50, DS - 70, DS - 90

【Applications】

This product can be widely applied to various microelectronic devices, electronic components, heating elements in electrical equipment (power tubes, electric reactors), cooling facilities (heat sinks, heat dissipation, shells etc.), power supplies, microwave communications, microwave transmission equipment, and other microwave devices. It shows excellent performance in heat dispersion and irradiation for electronic components such as transistors, CPU assemblies, thermistors, temperature sensors, automotive electronic components, automotive fridge, power modules and printer heads etc.

【Technical Data Sheet】

Testing Items	Technical Data Sheet					Test Method
	DS-30	DS-40	DS-50	DS-70	DS-90	
Vertical thermal conductivity before volatilization (W/m k)	3.0	4.0	4.8	5.5	5.2	GB/T5598-85
Vertical thermal conductivity after volatilization (W/m k)	3.2	4.0	5.0	7.0	9.0	
Thermal impedance (℃ m2/W)	$8*10^{-4}$	$4*10^{-4}$	$3.1*10^{-4}$	$2.7*10^{-4}$	$2.9*10^{-4}$	
Density (g/cm^3)	3.0	3.3	3.4	3.2	2.4	GB/T13354-92

Oil Separation (%，200℃,24h)	**0**	**0**	**0**	**0**	**0**	**HG/T2502-1993**
Volatility (%，200℃,24h)	**0.2**	**0.2**	**1.5**	**1.5**	**4.0**	
Resistivity (Ωcm)	**$1.3*10^{14}$**	**$1.3*10^{12}$**	**$4.1*10^{11}$**	**$8.1*10^{11}$**	**$6.0*10^{11}$**	**GB/T1410-2006**
Apperance	**Gray paste**					**GB/T14074-2006**

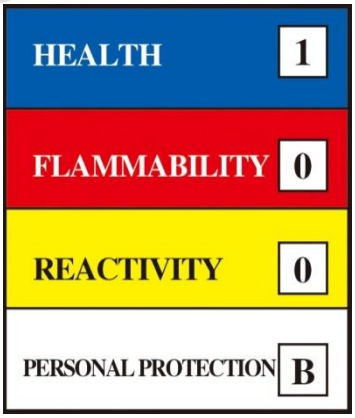
【Notes】

1. Before you use this product, please read the Materials Safety Data Sheet (MSDS) and the Hazardous Materials Identification System (HMIS).
2. After stored for a period of time, a small amount of silicone oil may be separated, but it can be used normally after stirring. This will not affect the product performance.
3. A suitable amount of silicone grease should be used according to the product requirement.
4. After use, please tighten and store in a cool and dry place away from children.
5. If the skin is inadvertently touched, flash it first, then rinse with clean water and hand liquid. In case if it comes into contact with the eyes, please rinse immediately. If serious, please go to the hospital immediately.
6. This content is based on the data and information that can be obtained at present.

【Instructions on safety, health, and environmental protection】

1. The packing barrel must be tight, loaded and unloaded carefully during transportation. Please don't load upside down.
2. When using this product, please avoid direct contact of the skin. Wear goggles and gloves or heat protective gloves if used in high temperature.
3. When dispose the product, please comply with relevant laws, rules, and regulations of the disposal of waste.

【HMIS(Hazardous Material Identification System)】



Rank classification：

0= None
1= Mild
2=Moderate
3=High
4=Extreme

Personal protective equipment：
A= Glasses; B= Glasses + Gloves

【MSDS(Material Safety Data Sheet)】

Please read the appendix for details。

【Appendix】

Data in this description was obtained in laboratory. Actual use of these data may be slightly different due to the changes in environment. If the above data are changed, the latest instructions are subject to the company's latest instructions.

（DS-30）

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（DS-40）

6 970471 498368

（DS-50）

6 970471 498375

（DS-70）

6 970471 498382

（DS-90）

6 970471 498399