



## Silicone Free Heat Sink

1978

Heat sink draws heat away when applied to a component. In electronics, heat sink compound is generally used to thermally bond a component with a mechanical heat sink. For electrical applications, it is used with thermocouple wells, thermistors, and calrods, or wherever efficient cooling is required.



### Heat-sink for electronics -- avoid silicone contamination

Ideal for electronic applications where silicone contamination hurts solderability and increase solder defects.

- Thermal conductivity - 0.92 W/m-K
- Functional temperature range -40°F to 392°F (-40°C to 200°C)
- Non-ozone depleting
- Avoid solder defects due to silicon contamination
- Easy application
- Will not separate
- Will not harden and cra

### Product Packaging

**1978-DP**  
Silicone Free Heat Sink Comp  
4 oz  
24 units/case



**1978-1**  
Silicone Free Heat Sink  
1 lb  
1 units/case





## Technical Information

### Chemical & Physical Properties

Appearance	Gray paste
Odor	none
Flash Point	296°C (565°F)
Boiling Point	> 204°C (400°F)

### Chemical Composition

CHEMICAL NAME	CAS #
Zinc oxide	1314-13-2
NJ Trade Secret Reg. #00840600-5000P	
NJ Trade Secret Reg. #00840600-5001P	
NJ Trade Secret Reg. #00840600-5002P	

### Performance & Application Data

Consistency (Penetration, worked, 60X)	320
Bleed, @200C, 24 hrs, %/wt	0.1
Evaporation, @200C, 24 hrs, %/wt	0.6
Thermal Conductivity, @36C, W/m-K	0.92
Dielectric strength, 0.05" gap, V/mil	305
Dielectric constant, 25C @1,000 Hz	4.50
Dissipation factor, 25C @1000 Hz	0.0029
Volume Resistivity, ohm-cm	$1.65 \times 10^{14}$
Operating Temperature Range	-40C to 200C
Flow rate, grams/min	4 to 6.5

## Environmental Policy

Techspray is committed to developing products to ensure a safer and cleaner environment. We will continue to meet and sustain the regulations of all federal, state and local government agencies.



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## Resources

Techspray products are supported by a global sales, technical and customer services resources.

For additional technical information on this product or other Techspray products in the United States, call the technical sales department at 800-858-4043, email [tsales@techspray.com](mailto:tsales@techspray.com) or visit our web site at: [www.techspray.com](http://www.techspray.com).

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### Countries Outside US

Call to locate a distributor in your country.

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