



# YG6111

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### Description

YG6111 and YG6260 are metal oxide filled silicone oil compounds designed to provide superior thermal conductivity. This combination of high purity fillers and silicones results in a smooth, homogeneous, high temperature dielectric compound. They have virtually no oil separation or high temperature weight loss. YG6111 is a general purpose grade with good workability. YG6260 has good paintability.

### Key Features and Benefits

- Superior thermal conductivity
- Extremely low oil bleed
- Little swelling effect on silicone elastomers

### Typical Physical Properties

Typical Properties	YG6111	YG6260
Appearance	White	White-Opaque
Specific Gravity (25C)	2.45	2.50
Unworked Penetration	200 to 350	300 ± 10
Thermal Conductivity (W/mK)	0.63	0.84
(cal/cm.sec.C)	(1.5x10 <sup>-3</sup> )	(2x10 <sup>-3</sup> )
Temperature Range C	-55 to 200	-50 to 150
(F)	(-67 to 392)	(-58 to 302)
<b>Typical Electrical Properties</b>		
Dielectric Constant 60Hz (25C)	5.4	5.0
Dissipation Factor 60Hz (25C)	0.005	0.005
Dielectric Strength (kV/0.25mm) (25C)	5	---
Volume Resistivity ohm-cm (25C)	2x10 <sup>14</sup>	2x10 <sup>14</sup>
Heating Weight Loss(150 C 24H) %	0.4	0.2
Oil Bleed (150 C 24 h) %	0.50	0.2
Dielectric Loss (50Hz)	0.006	0.005

### Potential Applications

Momentive Performance Materials thermally conductive compounds can be used in almost any industry, from electronics to automotive to aircraft to the semiconductor industries. YG6111 and YG6260 can be used in semi-conductor devices, and thermal joints where it maintains a positive seal which improves the heat transfer. This means that your electrical and electronic components may perform their function at much lower temperatures, thereby potentially increasing their efficiency and prolonging their life. Other applications include TV anode cap seal, power transistor, diodes, rectifiers, radiator fans, heat generating parts and heat exchangers.

### Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation

to practice any invention covered by any patent, without authority from the owner of the patent.

## Product Safety, Handling and Storage

The warranty period is 6 months from date of shipment from Momentive Performance Materials if stored in the original unopened container at temperatures between 5C and 30C (41F and 86F).

Customers should review the latest Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, and any special storage conditions required for safety. MSDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any Momentive Performance Materials (MPM) representative. **For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center.** Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

## Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

From automotive to healthcare, from electronics to construction, products from Momentive Performance Materials Inc. are practically everywhere you look. We are a global leader in silicones and advanced materials with a 70+ year heritage of innovation and being first to market – with performance applications that improve everyday life. By knowing our customers' needs and creating custom technology platforms for them, we provide science based solutions to help customers increase performance, solve product development issues and engineer better manufacturing processes.

## Contact Information

For product prices, availability, or order placement, contact our customer service by visiting [momentive.com/ContactSilicones](http://momentive.com/ContactSilicones).

For literature and technical assistance, visit our website at: [www.momentive.com](http://www.momentive.com)

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