

High Thermal Performing Fully Cured Dispensable Gels

Wakefield-Vette's *ulTIMiFlux* fully cured dispensable gels eliminate time consuming hand assembly, decreasing installation costs and reducing customer manufacturing and purchasing (logistical) complexity. These products require no mixing or curing, providing superior design flexibility. The dispensable gels provides low thermal impedance at thin and thick gaps, allowing use of common heat spreaders with proven reliability in extreme temperature cycling and shock & vibration. These dispensable gels also deflect easily under very low compressive forces, decreasing stress on components thus decreasing component failures

ulTIMiFluxTM 



WKV Part Number	Syringe Size (CC)	Color	Flow Rate (grams/min)	Specific Gravity	Typical Min Bondline Thickness (Inches)	Thermal Conductivity (W/mK)	Operating Range (Celsius)
GL-20-10	10	Pink	20	3.20	0.004	3.5	-55 to 200
GL-08-10	10	Yellow	8	1.20	0.015	2.4	-55 to 200
GL-60-10	10	White	60	2.70	0.002	3.0	-55 to 200

Features / Benefits:

Fully Cured

- Requires no refrigeration, mixing, or additional curing
- Proven long-term reliability and superior performance
- No settling occurs in storage

Highly Conformable At Low Pressures

- Ideal for multiple thickness gaps under one common heat sink
- Applies very low stress on components, which makes it ideal for delicate applications
- Allows for design flexibility compared to thermal pads

One Component Dispensable

- Eliminates hand assembly
- Decreases installation cost
- Eliminates multiple pad part sizes/ numbers

Excellent Surface Wetting

- Excellent for maintaining contact through thermal cycling

Applications:

- Automotive Electronic Control Units (ECU's)
- Power Supplies & Semiconductors
- Memory & Power Modules
- Microprocessors / Graphics Processors
- Flat Panel Display

Installation Guidelines:

Thermal gels are supplied in plastic syringes. Apply pressure to the rear of the cartridge, simply dispense the desired amount onto components or cooling plates. The gel is reworkable and excess material can be easily wiped off. Since GL-60-10 gel is conformable, the gel can be stencil printed onto the plates. The thickness of the printed gel can be adjusted depending on the component type and size, but about 6mil thickness is recommended.