## G7 Glass-Silicone Laminate Phenolic

## Description and Ovenview

G-7 phenolic differs from other glass composites in that its resin is silicone-based. Silicone laminate gives G-7 a few advantages: it has the highest maximum operating temperature of phenolic glass composites as well as an incredibly low dissipation factor compared to other phenolic materials. These properties make G-7 a natural fit for parts that will have prolonged exposure to high heat or arc. However, this material has moderate structural strength when compared to other heat-resistant phenolic grades like G-10 or G-11.

With a fire rating of UL94 V-0, G-7 phenolic is a self-extinguishing material.

## Applications and Uses

G-7 phenolic's electrical qualities and high heat resistance make it a desirable material for electrical applications. It is also preferred for heating and appliance insulation. Arc plates, transformers, and sleeves all have parts typically made from G-7 phenolic.

G-7 phenolic complies with Mil-I-24768/17, Type GSG specifications.

- Spacers
- Arc plates
- Terminal boards
- Welding tips
- Sleeves
- Transformers
- Heating and appliance insulation


