



Urethane Gel®

Forms an airtight seal around AAF AstroCel high efficiency air filters

- **Leaktight sealant**
- **Self-healing**
- **Non-silicone based product**
- **No biological growth**
- **Easy component installation/removal**
- **No vapour pressure, no off-gassing and no weight loss**



Urethane Gel® is a soft urethane neutral pH sealant gel used in conjunction with cleanroom filters and ceiling grids to provide a leak tight seal. The gel is used in:

- a) The AstroCel® II fluid seal filter, enabling it to be installed in an AAF PharmaGel Hood.
- b) The AstroGel® ND ceiling grid, enabling installation of AstroCel II knife edge filters.

Urethane Gel® has highly adhesive properties yet allows components to be embedded and removed with ease. The compound is self-healing which means the gel remains in tact during component installation and removal. It also cleans

up easily and is softer than contemporary silicon based sealants, permitting easier penetration. Urethane Gel® is silicone-free and does not exhibit fluid creep or decompose.

Thorough testing of the product under normal conditions, over a prolonged period, displayed no vapour pressure, no off-gassing and consequently no weight loss. In addition, no by-products are produced during the curing process and there is no biological growth.

Operating Temperature Range

Urethane Gel® has a wide operating temperature range of -40°C to 87°C. Under normal operating conditions, the gel

maintains its performance, but at extreme temperatures the penetration characteristics of the gel may change. At extremely low operating temperatures the gel tends to harden while at extreme high temperatures the product has a propensity to soften.

Volatility

Urethane Gel® is a low volatile compound. Testing of the compound at a constant temperature of 65.5 °C displayed no weight loss.

Compatibility

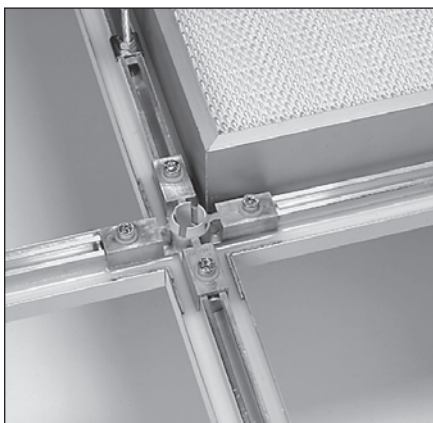
Urethane Gel® has been tested on a range of materials and does not, under normal conditions, react with metals such as zinc, aluminium, cadmium or nickel.

Urethane Gel®

Technical Data

Urethane Gel®	One-part
Color	Blue
Specific mass	936 kg/m ³
Viscosity	600 cps
Pot Life (@ 25°C)	2.5 hours
Shelf life	6 months

AstroGel® ND ceiling grid



The AstroGel® ND ceiling grid is designed to provide an airtight seal around all filters and blank panels. The grid is truly leakfree under design conditions and utilizes no mastic sealants at the joints. It is lightweight, quick and easy to assemble. It is also strong enough to walk on. Penetration points in every connection joint facilitate installation of sprinklers, electrical conduits and smoke detectors. On the cleanroom side there are also provisions for installing light fixtures, wall panels and curtains.

AstroCel II Fluid Seal Filter



AstroCel® II fluid seal filters HEPA filters are designed for use with AAF's PharmaGel type ceiling modules. Combined these components form a high integrity, leakfree ceiling grid system that provides the necessary level of contamination control in cleanrooms. AstroCel® II fluid seal filters feature a high quality glass fibre media pack housed in a frame made from high quality extruded aluminium. Thermoplastic separators maintain equidistant spacing between media pleats and a smooth airflow through the filter. The filters are lightweight, compact and easy to install.

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