

## COMPARISON TABLE

### COVEN FP3101UV vs 3M Novec 2701

|                                   | COVEN 3101UV   | Novec 2701  |
|-----------------------------------|--|---|
| Appearance                        | Colorless, clear to slightly cloudy  | Transparent, colorless                                      |
| Solids                            | 2 - 4% (can be adjustable)<br>Fluoropolymer  | 1.0 wt% Fluorinated polymer                                 |
| Density                           | 1.4 g/ml   | 1.41g/ml  |
| Viscosity                         | ~1 cps   | 0.7cps  |
| Shelf Life                        | 2 years  | 2 years   |
| Mechanism                         | Evaporation and moisture curing  | Evaporation and moisture curing                             |
| Tack free time                    | < 1 min  | < 2 mins  |
| Coating thickness                 | 0.2 microns  | <1 microns (depending on application method)                |
| Application method                | Spray, dip, selective dispense   | Dipping (preferred), spray, syringe dispense                |
| Solvent and Chemical Resistance   | Moisture, corrosion and other strict environmental conditions, excellent solvent and chemical resistance | Yes (resists aqueous, hydrocarbon and alcohol-based fluids) |
| Tg (Glass Transition Temperature) | 75°C   | 53 °C   |
| Non-Flammable                     | UV94 V-0   | no mentioned  |
| Dielectric Constant               | 2.25 @100KHz   | 2.8 @1kHz   |
| Dissipation Factor                | 0.016 @100KHz  | 0.011   |
| Dielectric Breakdown Strength     | 2500 V/mil   | 3700V/mil   |
| Thermal Shock                     | 150°C continuous - 250°C one hour  | can withstand 175C for 24h and maintain repellency          |