



SEMICONDUCTOR...

*providing SPECIALIZED COMPOUNDS
and SEALING SOLUTIONS since 1984.*



Perfluoroelastomers and Viton® | Cleanroom Production | Prompt Shipment from Anaheim, CA or Chicago, IL

Why leading semiconductor component manufacturers insist upon Spec Seals for O-Rings, Rubber Seals and Gaskets.

Spec Seals has been manufacturing O-Rings and custom molded rubber seals for the semiconductor industry since 1984 and offers a wide variety of compounds to meet your most demanding requirements.

Manufacturers of semiconductor components worldwide depend upon Spec Seals for their O-Ring and rubber seal requirements for the following important reasons:

Best Raw Materials:

Dupont-Dow, Solvay Solexis or 3M base elastomers are used to assure complete compliance to industry standards.

Cleanroom Production:

We have Class 100 and Class 100,000 manufacturing and packaging facilities for critical semiconductor O-Rings or custom rubber seals.

Fluoroelastomer and Viton® Compounds:

Fluoroelastomer compounds are available to meet a wide range of temperature and chemical resistance requirements at economical cost.

Perfluoroelastomer Compounds:

We offer Solvay Solexis and 3M Peroxide and Tiazine cured perfluoroelastomer compounds for superior chemical and temperature resistance.

Support for OEM Just-in-Time Delivery:

Spec Seals can monitor your MRP schedule and meet critical delivery on any rubber seal requirements for production or maintenance.

Strategic Shipping Locations:

With quick shipments from our Anaheim, CA Headquarters or large Midwest Distribution Center in Chicago, we provide low cost ground delivery to any manufacturing facility in 1-3 days.

Complete Documentation:

Every O-Ring or rubber seal is shipped with complete Batch # and Cure Date information and can incorporate customer part numbers on all labels and paperwork.

Custom Size O-Rings and Rubber Shapes:

We work with your team to develop special O-Ring sizes or molded rubber shapes to meet your special design needs. Prototypes and first articles can be quickly made for your evaluation.

Spec Seals High Performance Semiconductor Rubber Compounds

SPEC SEALS offers a wide range of rubber elastomers to support Semiconductor Manufacturers in North America and Worldwide. Our Anaheim Headquarters and Midwest Distribution Center in Chicago offers one of the largest O-Ring inventories of Nitrile, Silicone, and Viton® O-Rings for quick shipment to your facility.

SPEC SEALS Perfluoroelastomer compounds provide improved resistance to a wide variety of chemicals, temperatures and plasma over that of standard commercial elastomers. Perfluoroelastomer O-Rings and custom seals can be produced in a quick 3-4 weeks in the special sizes or shapes you may need.

Perfluoroelastomers do not perform well in Uranium Hexafluoride, Fully Halogenated Freon or some Fluorinated solvents.

To meet the most demanding purity requirements, SPEC SEALS Perfluoroelastomer O-Rings are manufactured in a Class 100,000 Cleanroom to minimize particulates for critical vacuum applications.

Please contact SPEC SEALS Engineering Team today to see which compound or solution we can recommend for your specific application!

(800) 633-1155 toll-free
(714) 777-5995 international
(714) 777-6722 fax
sales@specseals.com
www.O-Rings.com

| Semiconductor Compounds | Lead Time | Duro | Usage Temp | Typical Usage |
|--|------------|------|----------------|---|
| N100-70 Black Nitrile | Stock | 70 | -40F to +250F | Oil & Hydraulic Applications |
| N140-90 Black High Pressure Nitrile | Stock | 90 | -40F to +250F | High Pressure Oil Applications |
| N120-70 Black Oil Service Nitrile | 8-10 Weeks | 70 | -40F to +250F | High Temperature Oil Applications |
| S500-70 Red FDA Silicone | Stock | 70 | -65F to +400F | Good Chemical & Temp Resistance |
| F900-70 Blue Fluorosilicone | 8-10 Weeks | 70 | -80F to +350F | Broad Temp & Chemical Resistance |
| V700-75 Black Fluoroelastomer | Stock | 75 | -20F to +400F | Chemical & Temperature Resistant |
| V708-75 Brown Fluoroelastomer | Stock | 75 | -20F to +400F | Chemical & Temperature Resistant |
| V709-90 Hi Pressure Fluoroelastomer | 8-10 Weeks | 90 | -20F to +400F | High Pressure Chemical & Temp. |
| V700-75/W White Fluoroelastomer | 8-10 Weeks | 75 | -20F to +400F | Purity, Chemical & Temp Resistance |
| V797-75 Genuine Dupont Viton® | 8-10 Weeks | 75 | -20F to +400F | Chemical and Temperature Resistant |
| V798-75 Brown Genuine Dupont Viton® | 8-10 Weeks | 75 | -20F to +400F | Chemical and Temperature Resistant |
| PF10-80 Black Perfluoroelastomer | 3-4 Weeks | 80 | -22F to +572F | Broad Temp & Chemical Resistance |
| PF15-80 Black Perfluoroelastomer | 3-4 Weeks | 80 | -4F to +500F | General Chemical Resistance |
| PF20-80 Black Perfluoroelastomer | 3-4 Weeks | 80 | -22F to +590F | Exc. High Temp, Poor Steam & Amine |
| PF25-80 White Perfluoroelastomer | 3-4 Weeks | 80 | -4F to +446F | Low Particle Generation |
| PF30-80 White Perfluoroelastomer | 3-4 Weeks | 80 | -30F to +590F | Low Particle, Excellent for Plasma |
| PF35-80 Translucent Perfluoroelastomer | 3-4 Weeks | 80 | -4F to +446F | Low C.S., ExInt. Outgas, Poor Physical |
| PF40-80 White Perfluoroelastomer | 3-4 Weeks | 80 | -4F to +446F | Gen. Chem & Good Physical Prop. |
| PF45-80 Off White Perfluoroelastomer | 3-4 Weeks | 80 | -22F to +446F | Aggressive Amines & Chem Process |
| PF50-80 Translucent Brn Perfluoroelast | 3-4 Weeks | 80 | -22F to +590F | Low Metallic Ion Exceptional Outgassing and Thermal Stability |
| PTFE-WH White Teflon® | 8-10 Weeks | - | -300F to +500F | Wide Temperature Crush Seal |