



RediVac® Vacuum Baked O-Rings

Faster pump-down, higher yields

UC Components' pre-cleaned and vacuum-baked O-Rings provide ready-to-install Viton® O-Ring seals direct to your point of use in high vacuum environments. You get the benefit of faster, cleaner, more predictable pump-down times, and greatly reduced surface molecular and volatile organic compound contamination.

Outgassing from O-Ring seals is a significant problem in HV and UHV systems. Our dedicated O-Ring vacuum oven (with RGA reporting capability) reduces outgassing by orders of magnitude – removing contaminants both from the O-Ring surfaces and from within the seal itself.

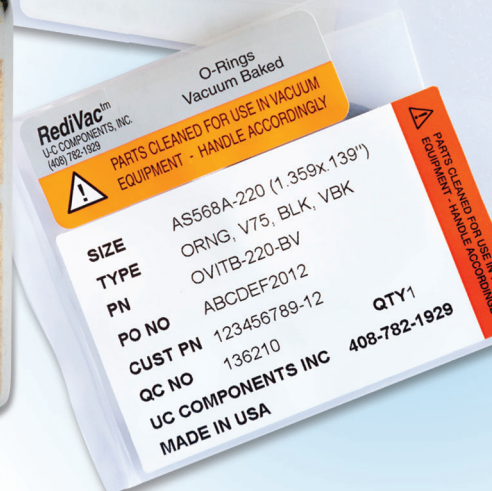
Meticulous Attention to Detail

Every O-Ring is individually inspected to eliminate flashing, cuts, scrapes and defects. It is then precision cleaned and packaged through our multi-stage, RediVac® process – all within a certified Class 100 cleanroom.

RediVac® = Ready for Vacuum

Our state-of-the-art RediVac® process insures that every O-Ring is ready for instant installation in your HV/UHV equipment. Faster setup time and reduced contamination accelerate your system throughput, so you can run faster, leaner and more cost effectively.

Fasteners and Seals for Science.



18700 Adams Ct | Morgan Hill, CA 95037
Phone: 408.782.1929 | Fax: 408.782.7995
Email: sales@uccomponents.com
uccomponents.com

How can UC help you?
Call (408) 782-1929



O-Ring Compound Reference Information

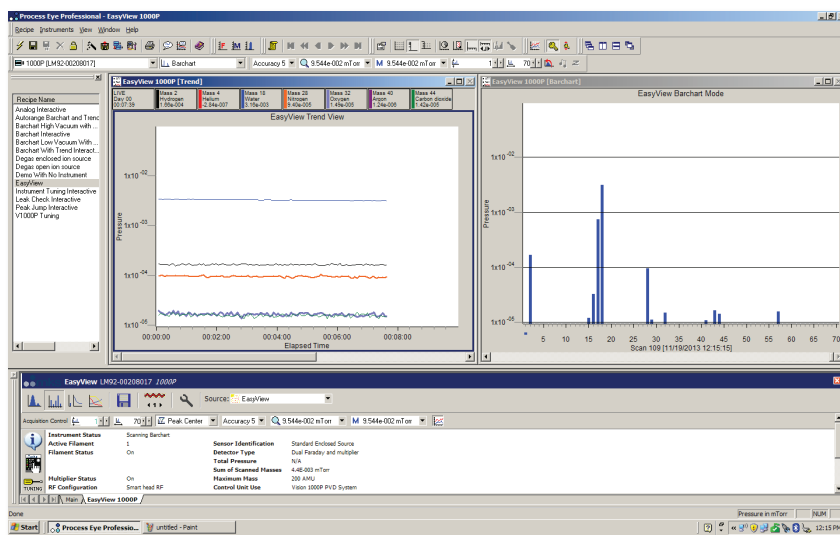
Material	Shore A Durometer	Temperature Range	General Notes
Viton™/FKM	60 to 90	-20 to 400 F	Excellent temperature and chemical resistance, ultra low compression set. Most common vacuum O-Ring seal compound.
Nitrile (Buna N)	50 to 90	-40 to 250 F	General Purpose, low cost, good strength, good compression set. Resistance to oils, fuel, water and air. Higher outgassing rates than Viton™.
Silicone	40 to 80	-60 to 450 F	Excellent temperature and water resistance, but poor abrasion, oil, fuel and solvent resistance, poor tensile strength, for static seal use only. May not be appropriate for some vacuum applications.
Butyl	50 to 80	-60 to 250 F	Excellent impermeability, but poor compression set. Not recommended for Vacuum Applications.

UC Components Standard RediVac® O-Ring material is black FKM (Viton™).
We also stock a large inventory of brown Viton™ O-Rings. Inquire about other materials you may need.

General Notes:

Most O-Rings have a durometer between 60 and 75. If you have specific requirements, please contact us. It is possible to custom manufacture O-Rings with durometer and temperature ratings outside the above guidelines.

The Temperature Range above is a guideline for continuous service. Some compounds can withstand higher temperatures for a short duration. Contact us for further information.



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