



# News Release

For Release: Immediately

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## **New Parker Material V1274-75: USP Class VI Biocompatibility**

LEXINGTON, KY, June 20, 2008 - Parker Hannifin Corporation, the global leader in motion and control technologies, is pleased to introduce V1274-75, a new fluorocarbon material developed primarily for pharmaceutical processing. V1274-75 meets the requirements of USP Class VI systemic toxicity, intracutaneous injection and muscle implantation studies. Additionally, this 75 durometer fluorocarbon material is FDA compliant, provides low compression set, low extractables and maintains good steam resistance for sterilization cycles. And while it was created for pharmaceutical processing, V1274-75 can also be used in steam sterilizers and disposable/ repeat medical device sterilization.

To learn more about this innovative material, please contact our application engineers at 859-335-5101. To order printed copies of Parker's V1274-75 bulletin, call Catalog Services at 1-440-205-7799 and reference bulletin ORD 5755.

Parker's O-Ring Division products are at the leading edge of elastomer technology and this new material is no exception. We offer a broad spectrum of materials ranging from the chemically resistant, high temperature Parofluor™ and Parofluor ULTRA™, to a variety of premium elastomeric sealing materials. Whether it is an "off-the-shelf" industrial standard or a material in a custom size developed to customer specifications, our commitment to service is designed to minimize downtime and maximize quality. In addition to O-Rings, Parker's O-Ring Division offers ParBak™ anti-extrusion rings, installation lubricants and O-Ring assembly and removal tools. Our manufacturing plants are ISO 9001, TS 16949 and AS 9100 registered.

With annual sales exceeding \$10 billion, Parker Hannifin is the world's leading diversified manufacturer of motion and control technologies and systems, providing precision-engineered solutions for a wide variety of commercial, mobile, industrial and aerospace markets. The company employs more than 57,000 people in 43 countries around the world. Parker has increased its annual dividends paid to shareholders for 52 consecutive years, among the top five longest-running dividend-increase records in the S&P 500 index. For more information, visit the company's web site at <http://www.parker.com> , or its investor information site at <http://www.phstock.com> .

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# V1274-75

USP Class VI Biocompatibility



Meets requirements of USP Class VI systemic toxicity, intracutaneous injection and muscle implantation studies:

Today's constant advancements in medical technology present a plethora of sealing challenges in the life sciences industry. The most critical concern normally faced in medical technology is the purity of a seal.

While some medical applications may never touch human tissue or fluids, deeming standard material selection as appropriate, more critical applications require elastomers to be manufactured and packaged with the utmost "clean" care.

In some instances, seals can react with tissue or fluid causing impurities to leach out of the seal. For this reason, engineers require materials like V1274-75 with few if any impurities.



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## Benefits:

- Good steam resistance for sterilization cycles
- USP Class VI biocompatibility
- FDA compliant
- Low extractables
- Temperature range of -15 to 400°F
- Low compression set

## Recommended For:

- Pharmaceutical processing
- Steam sterilizers
- Disposable and repeat medical device sterilization

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## V1274-75

Elastomers selected for critical applications must consist of “clean” ingredients. These ingredients are outlined by the United States Pharmacopeia (USP), the official standard setting authority on health care products manufactured and distributed in the U.S.A. USP Class VI states that compounds must consist of ingredients with clear histories of biocompatibility and meet tighter requirements for leachables.

Parker’s V1274-75 , primarily developed for pharmaceutical processing, meets the requirements of USP Class VI systemic toxicity, intracutaneous injection and muscle implantation studies. This fluorocarbon material provides good steam resistance for sterilization cycles, USP Class VI biocompatibility, FDA status, low extractables (all of which reduce the risk of contaminating a customer’s product) and good compression set (long life in application / reduced maintenance costs). While V1274-75’s primary application is in pharmaceutical processing, it can also be used in both steam sterilizers and disposable/repeat medical device sterilization.

### USP and ISO Systemic Toxicity Study

Extract	Test Group # Deaths/ # Tested	Control Group # Deaths / # Tested
Saline	0/5	0/5
Alcohol in Saline	0/5	0/5
Polyethylene glycol 400	0/5	0/5
Sesame Oil	0/5	0/5

### USP Intracutaneous Study

Extract	Avg. Test Score	Control Test Score	Difference
Saline	0.0	0.0	0.0
Alcohol in Saline	0.0	0.0	0.0
Polyethylene glycol 400	0.0	0.0	0.0
Sesame Oil	1.0	1.0	0.0

### USP Muscle Implantation Study

Sample Size	Avg. Test Score	Control Test Score	Difference
1 x 10 mm	0.0	0.0	0.0

