

**BUSINESS PARTNER EXTRANET**



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**Orders**

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**Customer Part Lookup**

**Part Lookups**

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**Customer Part Lookup**

Customer Part Number

**Lookup Customer Part**

Use the Zatkoff Business Partner Extranet to look up parts using any portion of the customer's or the Zatkoff's inventory stock number.

**How do I start?**

**Contact your Zatkoff Seals & Packings sales representative.**

**It's easy - after your Extranet account is activated by Zatkoff Seals & Packings.**

As an existing Zatkoff Business Partner our Extranet site is custom tailored to meet the specifics of your business-to-business transactions.

1. Go to [www.zatkoff.com](http://www.zatkoff.com)
2. Click on the "Orders" Tab.
3. Put in your E-mail Address and Password. Then

Use the Zatkoff Business Partner Extranet to lookup O-rings in Inch or Metric Dimensions.

**46,096** O-ring Item Numbers in Extranet Lookup    **140,195,908** O-ring Parts in Zatkoff's Stock  
**17,157** O-ring Item Numbers in Zatkoff's Stock    **\$13,112,284.17** Total Zatkoff Inventory Available

**Characteristic O-Ring Lookup**

Search Criteria	Inside Diameter	Cross Section	Part Count
	0 to 0		

Please enter search criteria into the boxes to the left.

On the **Zatkoff Extranet** site your company will have access to look-up thousands of micro miniature, standard inch and metric sizes of O-rings. Each item can be checked for material specifications as well as stock availability.

\*measurement in inches

Inside Diameter\*

Cross Section\*

In Stock Only

[www.zatkoff.com](http://www.zatkoff.com)

**E-News Highlights**

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# Take a closer look at North American Rubber Technology. We did...

## Aren't All Nitrile O-Rings the same?

Nitrile O-Rings are so prevalent now, there is a tendency to think of them as a commodity which can be purchased from the cheapest source in the world. There seems to be a belief that all Nitrile O-Rings are created equal. Zatkoff Seals and Packings, being one of the largest, full line Seal Distributors in North America, took a leadership role in challenging this belief. In part through the efforts of Zatkoff, Parker Seal Group compound N674-70 is recognized as the best industrial Nitrile rubber material. However, the belief that all Nitrile O-Rings are the same encouraged us to investigate the performance of foreign, particularly Asian sourced O-Rings. Zatkoff personnel went to several Asian O-Ring suppliers and we sampled O-Rings of various standard cross sections from the best of the many suppliers surveyed and visited.

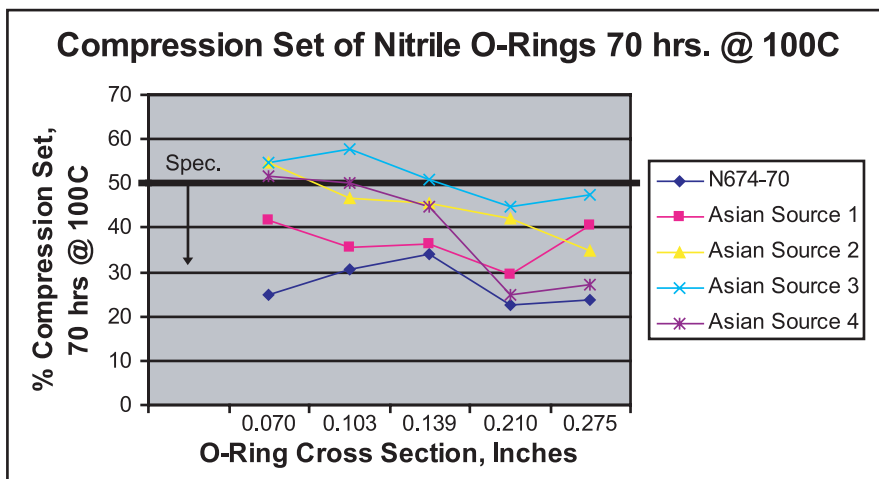
The most important performance property of an O-Ring is its resistance to compression set. Simply put, resistance to compression set measures the resistance of the O-Ring to flattening during squeeze in the application. We are all familiar with the leaky faucet or fitting which, when taken apart, has a flattened O-Ring no longer capable of sealing the joint or fitting. Compression set testing was done on the various standard cross section O-Rings per ASTM D395 Method B procedures. The testing time and temperature were 70 hours at 100°C which is an accurate measure of Nitrile O-Ring performance. In standard compression set testing, a section of the O-Ring is squeezed to 25% deflection, oven aged for the desired time and temperature, removed from the fixture and cooled to room temperature prior to measurement. Compression set is ex-

pressed as the percentage of the original squeeze lost during the testing. In other words, the percent compression set is the amount of seal interference lost. The lower the compression set, the better the O-Ring will retain its sealing interference and the longer the O-Ring life in the joint or fitting.

In the figure below, we have plotted the results from compression set testing done by Zatkoff. With every standard O-Ring cross section tested, Parker's N674-70 was clearly superior to the Asian sourced O-Rings for resistance to compression set. If we set the standard of performance at 50% maximum compression set, which is a reasonable expectation for Nitrile O-Rings, the smaller cross section Asian O-Rings have a particularly difficult time meeting this expectation. Parker's N674-70 meets this expectation easily and is very robust across the range of standard O-Ring cross sections. The O-Rings from the Asian Source 1 even showed a worse resistance to compression set at the standard 400 series, 0.275" cross section. This is indicative of utilizing ingredients strictly for cost reduction and shortening the critical process cycles to further reduce costs. The process controls and traceability of the Parker process for N674-70 is clearly demonstrated in the compression set results.

We do not have room in this newsletter to cover all of the extensive testing done for this project. However, your Zatkoff Seals & Packings representative will be happy to provide you with the detailed test report covering this investigation.

Article by: Robert W. Keller, PhD MBA - Consultant



## STOCKING BRANCH LOCATIONS

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### Toledo Branch

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Holland, OH  
43528-9604  
(419) 866-1600  
Fax: (419) 866-4668

### Grand Rapids Branch

4678 50th Street S.E.  
Grand Rapids, MI  
49512-5401  
(616) 698-6880  
Fax: (616) 698-6877

### Saginaw Branch

5925 Sherman Road  
Saginaw, MI  
48604-1173  
(989) 754-2900  
Fax: (989) 754-2974

### Indianapolis Branch

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Indianapolis, IN  
46256-1001  
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