



PRODUCT BULLETIN
Compound 8782
Improved Acid Resistance

For many years, litharge incorporated Viton® was the economical choice for sealing concentrated sulfuric acid. Precision Associates' compound 8745 has been used successfully in these applications for more than 30 years.

PAI now introduces compound 8782, an even better solution with improved properties and performance, that is RoHS compliant.

For comparison, we tested both of the compounds in concentrated (+98%) sulfuric acid. Test results are listed below. A picture of our test samples is shown at right.

Contact Precision Associates Customer Service group to receive a complete Product Data sheet for compound 8782.

Similar Viton® compounds are also available in 55, 60 and 90 Durometer materials.



ASTM D 471 Volume Swell sample after aging 480 hours @ 250° F . (Samples shown 3/4 size)

<i>8745</i>	Original Properties	Sulfuric Acid 70 hrs @ 250° F		Sulfuric Acid 168 hrs @ 250° F		Sulfuric Acid 480 hrs @ 250° F	
Tensile Strength, psi	1606	1331	-17.2%	901	-43.9%		
Elongation, %	203	234	+15.2%	171	-16.0%		
Hardness, pts	78	75	-3	73	-5	not measurable	
Modulus at 100% Elongation, psi	774	639		607			
Volume Change			+9.0%		+22.7%		+109%
Appearance		slight surface decomposition		slight surface decomposition		severe decomposition	

<i>8782</i>	Original Properties	Sulfuric Acid 70 hrs @ 250° F		Sulfuric Acid 168 hrs @ 250° F		Sulfuric Acid 480 hrs @ 250° F	
Tensile Strength, psi	2741	2423	-11.6%	2211	-19.3%		
Elongation, %	216	237	+9.5%	231	+6.9%		
Hardness, pts	77	77	0	77	0	77	0
Modulus at 100% Elongation, psi	1008	941		891			
Volume Change			+3.5%		+4.2%		+7.5%
Appearance		No Change		No Change		No change	



Test results are typical. Customer should determine the suitability of our compound in their own application.



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- *Special Size O-Rings*
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- *Rod Wipers*
- *X-Rings*
- *8-Rings*
- *Multiseal® Low Friction Seals*
- *Kurv-Bak™ Hard Rubber Backup Rings*
- *Rubber Balls*
- *Medical Seals*
- *Custom Moldings*

After 56 years in the rubber business, we've learned to be flexible. We'll bend over backwards to design custom solutions that meet your needs *precisely*. PAI is the company you can trust for rubber seal solutions **YOUR WAY!**

- **Over 1,000 different compounds**
- **More than 2,300 O-Ring Sizes**
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