

INTERNATIONAL PRODUCTS CORPORATION

201 CONNECTICUT DRIVE • PO BOX 70 • BURLINGTON, NJ 08016-0070 • USA

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MICRO-90[®] CONCENTRATED CLEANING SOLUTION ASTM D471-79: ELASTOMER COMPATIBILITY

Conclusion: MICRO-90 was found to be compatible with all of the elastomers tested below.

MICRO-90 CONCENTRATED CLEANING SOLUTION						
%Swell, Room Temperature						
Immersion Time	Buna-N	Neoprene	Butyl	EPDM	Viton	Silicone
22 Hours	+0.3%	0.0%	+0.1%	-0.3%	0.0%	+0.2%
70 Hours	+0.6%	0.0%	+0.1%	-0.4%	0.0%	+0.9%

MICRO-90 CONCENTRATED CLEANING SOLUTION						
%Swell, 85°C						
Immersion Time	Buna-N	Neoprene	Butyl	EPDM	Viton	Silicone
22 Hours	+1.2%	+1.4%	+0.9%	+0.1%	+0.6%	+1.3%
70 Hours	-1.2%	+1.0%	+0.8%	-2.9%	+0.7%	+1.4%

Tap Water (Control Samples)						
%Swell, 85°C						
Immersion Time	Buna-N	Neoprene	Butyl	EPDM	Viton	Silicone
22 Hours	+1.0	+0.4	No Change	No Change	No Change	+1.5
70 Hours	+1.9	+1.0	No Change	No Change	No Change	+1.6

Elastomers

1. Buna-N, (Nitrile), Mil-R-3065, ½" x ½" x ¼"
2. Neoprene, ASTM D2000, Type BC, ½" x ½" x ¼"
3. Butyl, ASTM D2000, Type BA, ½" x ½" x ¼"
4. EPDM, Ethylene Propylene Diene Methylene, ASTM D2000, Type HK, ½" x ½" x ¼"
5. Viton, (Fluorocarbon), ASTM D2000, Type HK, ½" x ½" x ¼"
6. Silicone, FDA Silicone, Type ZZ-R-765-E, Class 2A & B, 50A Durometer

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2% MICRO-90® CONCENTRATED CLEANING SOLUTION ASTM D471-79: ELASTOMER COMPATIBILITY

Conclusion: 2% MICRO-90 was found to be compatible with all of the elastomers tested below.

2% MICRO-90 CONCENTRATED CLEANING SOLUTION						
%Swell, Room Temperature						
Immersion Time	Buna-N	Neoprene	Butyl	EPDM	Viton	Silicone
22 Hours	+0.9%	+0.5%	-0.2%	+0.2%	+0.3%	+1.0%
70 Hours	+1.3%	+1.2%	+0.2%	+0.5%	+0.6%	+1.2%

2% MICRO-90 CONCENTRATED CLEANING SOLUTION						
%Swell, 85°C						
Immersion Time	Buna-N	Neoprene	Butyl	EPDM	Viton	Silicone
22 Hours	+4.3%	+2.2%	+1.4%	+1.2%	+0.6%	+1.2%
70 Hours	+9.6%	+7.3%	+2.1%	+1.6%	+0.7%	+1.2%

Tap Water (Control Samples)						
%Swell, 85°C						
Immersion Time	Buna-N	Neoprene	Butyl	EPDM	Viton	Silicone
22 Hours	+1.0	+0.4	No Change	No Change	No Change	+1.5
70 Hours	+1.9	+1.0	No Change	No Change	No Change	+1.6

Elastomers

1. Buna-N, (Nitrile), Mil-R-3065, ½"x ½"x ¼"
2. Neoprene, ASTM D2000, Type BC, ½"x ½"x ¼"
3. Butyl, ASTM D2000, Type BA, ½"x ½"x ¼"
4. EPDM, Ethylene Propylene Diene Methylene, ASTM D2000, Type HK, ½"x ½"x ¼"
5. Viton, (Fluorocarbon), ASTM D2000, Type HK, ½"x ½"x ¼"
6. Silicone, FDA Silicone, Type ZZ-R-765-E, Class 2A & B, 50A Durometer

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