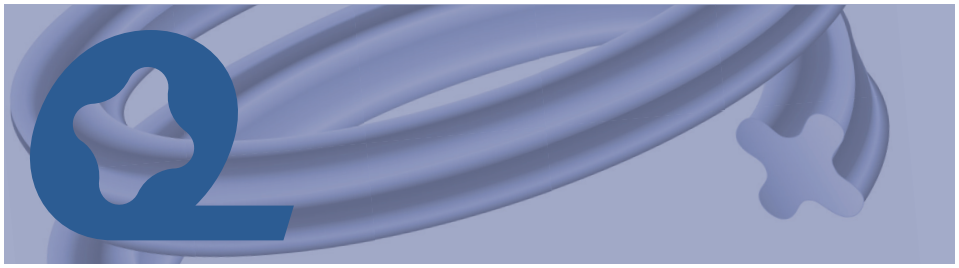
# VMQ Silicone Compound 71417

Minnesota Rubber & Plastics
Quadion LLC




## General Features

- Excellent compression set resistance
- Superior heat resistance
- Good resistance to petroleum oils and greases
- Superior low temperature performance

## Application

A general purpose VMQ with excellent aging resistance for suitability in a variety of sealing applications.

71417 exhibits excellent resistance to wide range of petroleum based products while providing good low temperature flexibility and excellent sealing performance.

Quad-Ring® Brand Seals

Quad® Brand O-Ring Seals

Quad® Ground Rubber Balls

Equi-Flex™ Rod Wiper/ Scraper

## Original Properties

| Property | Unit | Required | Obtained | ASTM Test Method |
|---|---|---|---|---|
| Hardness | Shore A | 70 ± 5 | 69 | D 2240 |
| Tensile | MPa | 6 min | 7.3 | D 412 |
| Elongation at break | % | 150 min | 272 | D 412 |
| 100% Modulus | MPa | | 3.3 | D 412 |
| Tear Strength, Die B | kN/m | | 9.5 | D 624 |
| Specific Gravity | | | 1.40 | D 297 |

## Air Age

| Property | Unit | Obtained | ASTM Test Method |
|---|---|---|---|
| Change after 70h @ 225°C | | | D 573 |
| Δ Hardness | Shore A | 3 | |
| Δ Tensile | % | 20.5 | |
| Δ Elongation | % | -20.6 | |

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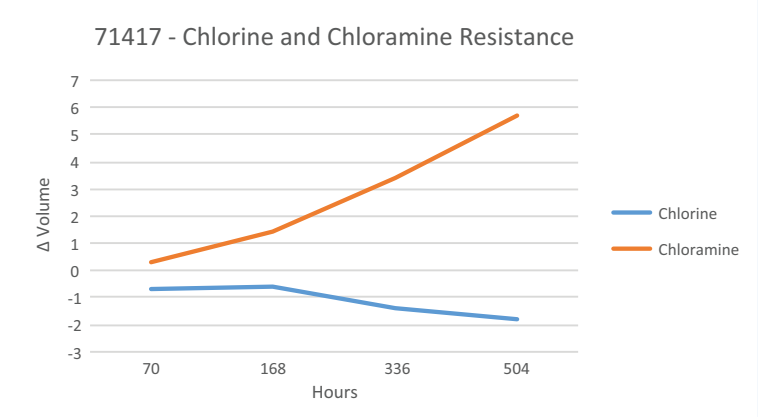
## Fluid Immersion

| Property | Unit | Obtained | ASTM Test Method |
|---|---|---|---|
| IRM 901 oil | | | |
| Change after 70h @ 150°C | | | D 471 |
| Δ Hardness | Shore A | -6 | |
| Δ Tensile | % | 6.3 | |
| Δ Elongation | % | -11.4 | |
| Δ Volume | % | 5.8 | |

| Property | Unit | Obtained | ASTM Test Method |
|---|---|---|---|
| IRM 903 oil | | | |
| Change after 70h @ 150°C | | | D 471 |
| Δ Hardness | Shore A | -23 | |
| Δ Tensile | % | -4.6 | |
| Δ Elongation | % | -9.9 | |
| Δ Volume | % | 37.9 | |

| Property | Unit | Obtained | ASTM Test Method |
|---|---|---|---|
| De-Ionized Water | | | |
| Change after 70h @ 100°C | | | D 471 |
| Δ Hardness | Shore A | 0 | |
| Δ Tensile | % | 0.7 | |
| Δ Elongation | % | 4 | |
| Δ Volume | % | -0.6 | |




## Compression Set Resistance

| Property | Unit | Obtained | ASTM Test Method |
|---|---|---|---|
| | | | D 395, Method B |
| 22h @ 175°C | % | 7.9 | |
| 70h @ 175°C | % | 11.5 | |

## Low Temperature

| Property | Obtained | ASTM Test Method |
|---|---|---|
| Non-brittleness, 3 min @ -55°C | Pass | D 2137 |


Minnesota Rubber & Plastics
Quadion LLC
Leader in Advanced Technologies

To get a quote or order, please visit our website or contact one of our Customer Service Representatives
USA: 1(800)927-1422 Asia: +86-512 6273 2700 Europe: +33(0)2 32 22 24 26

www.mnrubber.com email: webmaster@mnrubber.com phone: 952-927-1400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