

## General Features

- Superior compression set resistance
- Very good heat resistance
- Excellent resistance to water, steam, and aqueous acid/base environments
- Excellent resistance to chlorine and chloramine disinfectants
- Good low temperature performance
- Water, Food, and Beverage Certifications

## Application

Developed for use in potable water, food and beverage applications.

558CH exhibits excellent resistance to various aqueous food products and has multiple global certifications for health, hygiene, and safety in food and water applications.



Flow Controllers



Tank Bladders



RO Membranes



Filtration



Valves



Flow Meters



Brine Seals & Food Contact Seals



Quad-Ring® Seals



Food Contact Seals and Ground Rubber Balls

## Certifications



NSF/ANSI Standard 51  
NSF/ANSI Standard 61



FDA 21 CFR 177.2600



EC1935/2004



3-A Sanitary Standards



Attestation de  
Conformite  
Sanitaire - France



USP Class VI



DVGW W 270 Germany



Water Regulations  
Advisory Scheme - UK



Elastomer Guideline - Germany

## Original Properties

Property	Unit	Required	Obtained	ASTM Test Method
Hardness	Shore A	70 ± 5	73	D 2240
Tensile	MPa	10 min	13.8	D 412
Elongation at break	%	100 min	132	D 412
100% Modulus	MPa		9.3	D 412
Tear Strength, Die C	kN/m		21.7	D 624
Specific Gravity			1.10	D 297

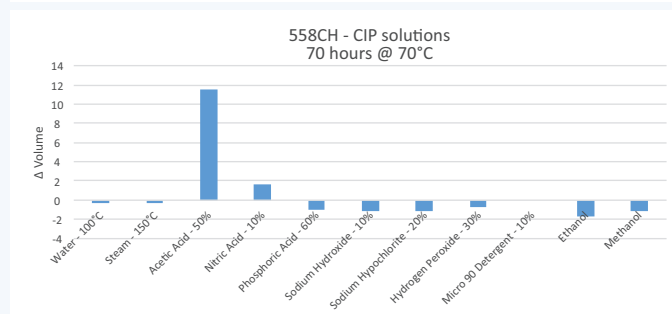
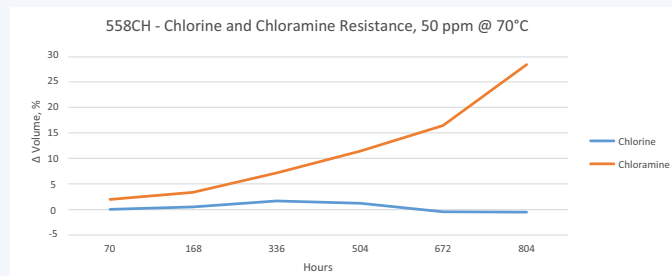
# Qmonix® EPDM Elastomer Compound 558CH

## Air Age

Property	Unit	Obtained	ASTM Test Method	Property	Unit	Obtained	ASTM Test Method
Change after 70h @ 100°C			D 573	Change after 70h @ 125°C			D 573
Δ Hardness	Shore A	0		Δ Hardness	Shore A	2	
Δ Tensile	%	-4.8		Δ Tensile	%	0.8	
Δ Elongation	%	-6.1		Δ Elongation	%	3.1	

## Fluid Immersion

Property	Unit	Obtained	ASTM Test Method	Property	Unit	Obtained	ASTM Test Method
De-Ionized Water				De-Ionized Water			
Change after 70h @ 100°C			D 471	Change after 70h @ 150°C			D 471
Δ Hardness	Shore A	0		Δ Hardness	Shore A	1	
Δ Tensile	%	-0.2		Δ Volume	%	1.7	
Δ Elongation	%	0.8					
Δ Volume	%	-0.3					



## Compression Set Resistance

Property	Unit	Obtained	ASTM Test Method
			D 395, Method B
22h @ 100°C	%	4.3	
22h @ 125°C	%	6.3	
22h @ 150°C	%	10.0	
70h @ 100°C	%	6.4	
70h @ 125°C	%	9.8	