



## General Features

- Good compression set resistance
- Good heat resistance
- Good resistance to petroleum oils, greases, and fuels
- Excellent low temperature flexibility

## Application

A low temperature flexible NBR with good aging resistance for suitability in a variety of sealing applications.

523EU exhibits good resistance to wide range of petroleum products while providing excellent low temperature flexibility and 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	71	D 2240
Tensile	MPa	10 min	11.6	D 412
Elongation at break	%		200	D 412
100% Modulus	MPa		4.9	D 412
Tear Strength, Die C	kN/m		22.2	D 624
Specific Gravity			1.29	D 297

## Air Age

Property	Unit	Obtained	ASTM Test Method
Change after 70h @ 100°C			D 573
Δ Hardness	Shore A	5	
Δ Tensile	%	8.1	
Δ Elongation	%	-14.5	

# NBR Elastomer Compound 523EU

## Fluid Immersion

Property	Unit	Obtained	ASTM Test Method	Property	Unit	Obtained	ASTM Test Method
Reference Fuel A				IRM 901 oil			
Change after 70h @ 23°C			D 471	Change after 70h @ 100°C			D 471
Δ Hardness	Shore A	-1		Δ Hardness	Shore A	9	
Δ Tensile	%	-6.9		Δ Tensile	%	16.9	
Δ Elongation	%	8		Δ Elongation	%	-12.5	
Δ Volume	%	3		Δ Volume	%	-10	

Property	Unit	Obtained	ASTM Test Method	Property	Unit	Obtained	ASTM Test Method
IRM 903 oil				De-ionized Water			
Change after 70h @ 100°C			D 471	Change after 70h @ 100°C			D 471
Δ Hardness	Shore A	-8		Δ Hardness	Shore A	-1	
Δ Tensile	%	6.9		Δ Tensile	%	3.3	
Δ Elongation	%	-8		Δ Elongation	%	-12.5	
Δ Volume	%	10		Δ Volume	%	1.6	

## Compression Set Resistance

Property	Unit	Obtained	ASTM Test Method
			D 395, Method B
22h @ 100°C	%	8.9	
70h @ 100°C	%	14.2	

## Low Temperature

Property	Obtained	ASTM Test Method
Glass Transition Temperature, °C	-66	D 7426
Temperature Retraction, TR10, °C	-52	D 1329
Non-brittleness, 3 min @ -55°C	Pass	D 2137



To get a quote or order, please visit our website or contact one of our Customer Service Representatives  
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