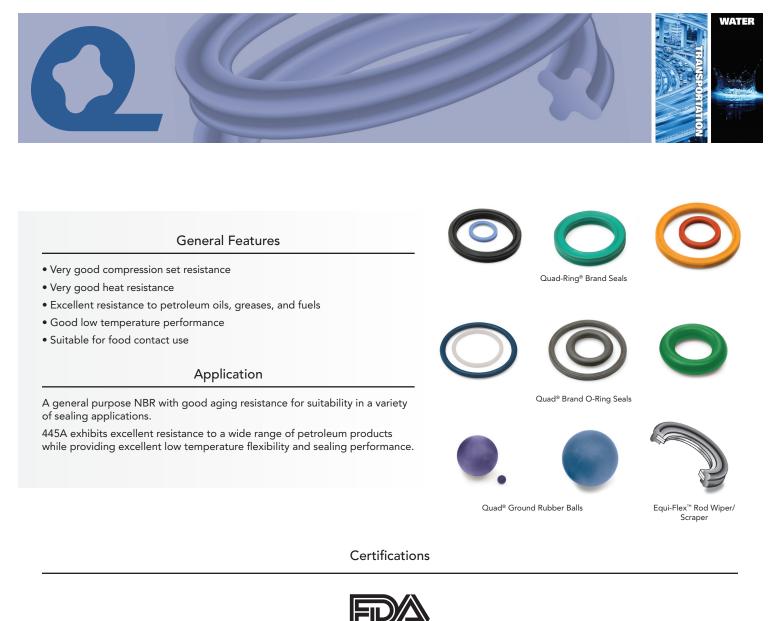
NBR Elastomer Compound 445A





FDA 21 CFR 177.2600

Original Properties

Property	Unit	Required	Obtained	ASTM Test Method
Hardness	Shore A	60 ± 5	60	D 2240
ensile	MPa	10 min	16.4	D 412
ongation at break	%		549	D 412
00% Modulus	MPa		2.1	D 412
ar Strength, Die C	kN/m		35.2	D 624
pecific Gravity			1.22	D 297

NBR Elastomer Compound 445A

Air Age

Property	Unit	Obtained	ASTM Test Method
Change after 70h @ 100°C			D 573
Δ Hardness	Shore A	5	
∆ Tensile	%	4.8	
Δ Elongation	%	-21.5	

Fluid Immersion

Property	Unit	Obtained	ASTM Test Method	Property	Unit	Obtained	ASTM Test Method
Reference Fuel B				IRM 901 oil			
Change after 70h @ 23°C			D 471	Change after 70h @ 100°C			D 471
Δ Hardness	Shore A	-13		Δ Hardness	Shore A	9	
∆ Tensile	%	-36.3		∆ Tensile	%	13.4	
Δ Elongation	%	-36.8		Δ Elongation	%	-18.8	
∆ Volume	%	21.2		Δ Volume	%	-11.5	

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	-2		Δ Hardness	Shore A	-1	
∆ Tensile	%	9.1		Δ Tensile	%	0.3	
∆ Elongation	%	-12.2		Δ Elongation	%	-15.1	
Δ Volume	%	1.9		∆ Volume	%	3.4	

Compression Set Resistance

Property	Unit	Obtained	ASTM Test Method
			D 395, Method B
22h @ 100°C	%	10.8	
70h @ 100°C	%	15.4	

Low Temperature

Property	Obtained	ASTM Test Method
Non-brittleness, 3 min @ -40°C	Pass	D 2137



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