



**YANG SHIN**

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**YANG SHIN RUBBER INDUSTRY CO., LTD.**

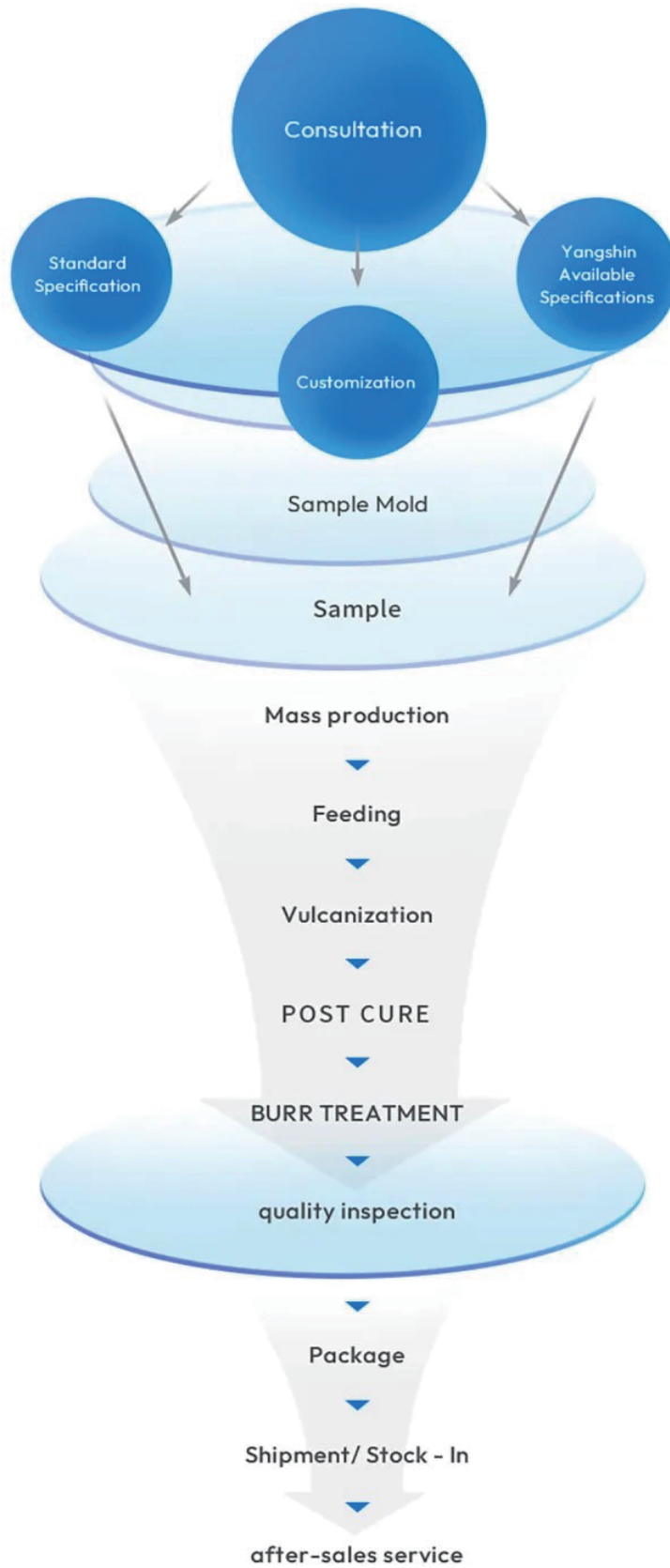
## YANG SHIN RUBBER INDUSTRY CO., LTD.

Founded in 1995, Yangshin has accumulated more than 25 years of professional experience in the OEM manufacturing of rubber products. With professional rubber knowledge, more than 3000 kinds of rubber products have been developed. Provide one-stop integrated manufacturing solutions from product R&D design, rubber formulation development, mold development, and quality inspection. Reduce production costs, shorten development time, allow customers to have cost-effective rubber products, and help customers face the increasingly competitive market changes.

### Our Advantages

- MIT : 100% Made In Taiwan
- SELF-MADE : Products are self-made. Reduce production costs and development time.
- MATERIAL : FKM(Fluorocarbon/Viton), VMQ(Silicone), NBR (Nitrile Rubber), EPDM(Ethylene Proprene Rubber), CR(Chloroprene Rubber/Neopreno), PU(Polyurethane/AU/EU), ACM(Polyacrylate/PolyacrylicRubber), AEM(Ethylene/Acrylic elastomer), HNBR(Hydrogenated Nitrile/H-Nitrile Rubber), IIR(Butyl Rubber), NR(Natural Rubber), SBR(Styrene-Butadiene Rubber)
- OEM/ODM : Specification, Material, Color, Hardness, Customized OEM/ODM. The best sealing solution for customers
- FORMULA : Food Grade, Tensile Strength, Ozone Resistance, Abrasion Resistance, Acid Resistance, Alkali Resistance High Temperature, Low Temperature, Oil Resistance, Graphite, Electrical Conductivity
- INTERNATIONAL STANDARD : Measure up to International Standard, ISO3601, DIN3771.
- EU LAWS: RoHS, REACH, PAHs.
- FOOD SAFETY CERTIFICATION : Products can develop international material certification, food&drinking water grade.
- MATERIAL CERTIFICATE : Yangshin provide relevant material certificates
- MAKE-TO-STOCK : Reserve stock for customers





## Dynamic characteristic

	FKM	VMQ	NBR	EPDM	CR	PU	ACM
Tensile strength	▲	X	○	▲	◎	◎	X
Abrasion resistance	▲	X	○	○	○	◎	X
Tear resistance	▲	X	○	▲	○	◎	X
Impact resistance	▲	X	○	○	◎	◎	X

◎ Excellent ○ Good

▲ Fair X Not Recommend

## Static characteristic

	FKM	VMQ	NBR	EPDM	CR	PU	ACM
Compression set	○	▲	○	○	◎	◎	▲
Heat resistance	◎	◎	▲	○	○	▲	◎
Low temperature resistance	▲	◎	○	○	○	▲	X
Weather resistance	◎	◎	▲	◎	○	▲	○
Ozone resistance	◎	◎	▲	◎	○	○	○
Mineral oil resistance	◎	▲	◎	X	▲	○	◎
Gasoline resistance	◎	▲	◎	X	▲	○	◎
Acid resistance	◎	▲	○	○	○	X	▲
Alkali resistance	○	▲	○	○	○	X	X
Toluene resistance	▲	▲	▲	▲	X	▲	▲
Alcohol resistance	○	○	○	○	◎	▲	○
Ketone resistance	▲	▲	▲	○	▲	▲	▲
Ether resistance	▲	○	X	◎	○	▲	▲
Water resistance	◎	◎	◎	◎	◎	X	▲
Flame resistance	◎	◎	▲	▲	○	▲	▲

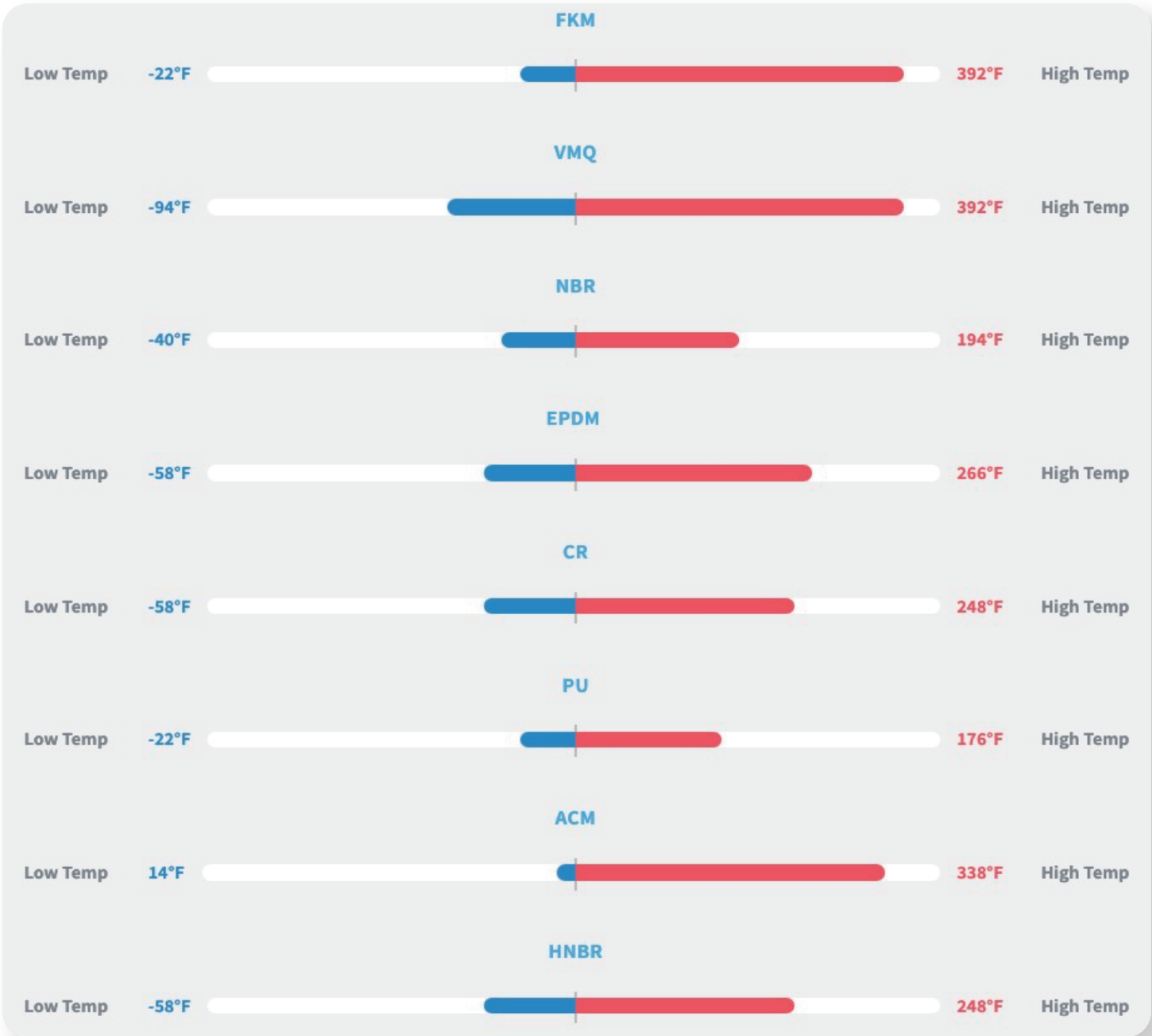
◎ Excellent ○ Good

▲ Fair X Not Recommend

# TEMPERATURE-RANGE

※ This list is the temperature range of commonly used rubber materials.

Special material formulas can be developed for use in special environments, EX: AEM (acrylic), VITON GF.





## O-RING

The section is O-shaped, so it is called O-ring. O-rings are the most widely used rubber sealing element and are cost-effective and productive. Yangshin reserves a large number of O-RING products, US standard AS568A series, Japanese standard JIS B 2401 series and special O-RING products.



## Xring

X-RING is composed of four sealing lips, also known as Quad-RING and Q-RING. Its sealing principle is roughly the same as O-RING. It can be used in dynamic and static environments. Due to its special design, the force on the contact surface is uniform distribution, can reduce friction and wear and prolong the life of seals.

※The groove design is slightly different from the O-RING design.  
For related questions, please contact Yangshin.



## Uring

Also known as U-PACKING and U-Seal, they are mainly used in hydraulic and pneumatic equipment and can be used in both static and dynamic environments. Yangshin cooperates with the development of international standard USH, UPH, USI, UPI, DH ... various series of products.  
All products can be customized product



## Washer

It is a common rubber seal. Its main functions are cushioning, shock absorption, and leakage prevention. Various sizes, hardnesses, and colors can be customized for development and production.

※Washer is all customized products, no specifications



## Gasket & Packing

It belongs to the mechanical seal, which achieves the functions of leakage prevention and buffering in the two joints. At present, Yangshin has cooperated with the development of NBR materials for vehicles, and added conductive formula products, which are used in electronic equipment.

※Gasket and Packing are all customized products.



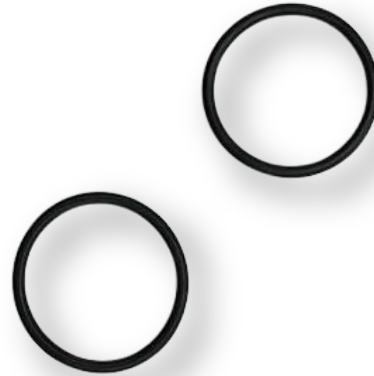
## Customization

Rubber products can be customized with special formulas such as material, hardness, color, etc., and develop exclusive products belonging to customers.

- |                                    |                          |
|------------------------------------|--------------------------|
| 1. Rubber clip iron                | 8. Rubber dust boot      |
| 2. Bathroom seal                   | 9. Rubber tube           |
| 3. Food grade rubber               | 10. Rubber strips        |
| 4. Industrial grade rubber         | 11. Rubber sheet         |
| 5. Hydraulic&Pneumatic rubber seal | 12. Rubber anti-slip pad |
| 6. Rubber sporting goods           | 13. Rubber buffer        |
| 7. Rubber kitchen utensils         | 14. Rubber plug          |
|                                    | 15. Rubber suction cups  |

## ACM O-RING

- Polyacrylate/PolyacrylicRubber
- Maximum Service Temperature : 338(°F)
- Minimum Service Temperature : 14(°F)
- Yangshin reserves a large number of O-RING products, US standard AS568A series, Japanese standard JIS B 2401 series and special O-RING products.
- Special ACM material can improve low temperature elasticity to -40°F.
- ACM has the characteristics of high temperature resistance, petrochemical oil resistance (lubricating oil), weather resistance and ozone resistance. The performance is better than NBR, it is a special rubber material.
- ACM is commonly used in the automotive industry as well as in the automation industry.
- Especially used in automatic transmission oil and steering hydraulic pump systems.



## FKM O-RING

- Fluorocarbon/Viton
- Maximum Service Temperature : 392(°F)
- Minimum Service Temperature : -22(°F)
- Fluorine content : 66%
- Yangshin reserves a large number of O-RING products, US standard AS568A series, Japanese standard JIS B 2401 series and special O-RING products.
- Acid Resistance , Alkali Resistance , High Pressure , Abrasion Resistance , Ozone Resistance , Organic Solvent etc.It has good resistance to physical attack and chemical attack.





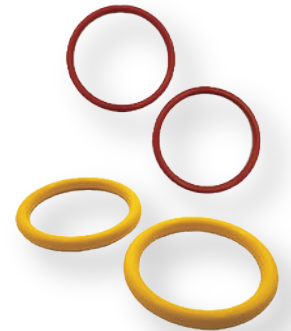
## PU O-RING

- Polyurethane/AU/EU
- Maximum Service Temperature : 176(°F)
- Minimum Service Temperature : -22(°F)
- Yangshin reserves a large number of O-RING products, US standard AS568A series, Japanese standard JIS B 2401 series and special O-RING products.
- Use in dynamic environments. Hygroscopic, not waterproof.
- Compression resistance
- Abrasion resistance
- Tear resistance



## VMQ O-RING

- Silicone
- Maximum Service Temperature : 392(°F)
- Minimum Service Temperature : -94(°F)
- Yangshin reserves a large number of O-RING products, US standard AS568A series, Japanese standard JIS B 2401 series and special O-RING products.
- Used in static environment
- Fuel Oil resistance, Lubricating Oil resistance, Organic Solvent resistance
- The material itself has poor strength and is not resistant to high pressure, wear and tear.
- Chemically stable. Non-toxic and tasteless.



## FOOD Grade VMQ O-RING

- Silicone
- Maximum Service Temperature : 392(°F)
- Minimum Service Temperature : -94(°F)
- Yangshin reserves a large number of O-RING products, US standard AS568A series, Japanese standard JIS B 2401 series and special O-RING products.
- Used in static environment
- Food grade Material certificate
- Drinking water grade Material certificate
- Chemically stable. Non-toxic and tasteless.
- The material itself has poor strength and is not resistant to high pressure, wear and tear.



## **NBR X-RING**

- Maximum Service Temperature : 194(°F)
- Minimum Service Temperature : -40(°F)
- Fuel Oil resistance, Lubricating Oil resistance, Organic Solvent resistance
- It is the most commonly used and relatively inexpensive rubber material.
- The joint line produced during production is located in the center of the two sealing lips, which does not affect the sealing effect.
- Due to its special design, the force on the contact surface is uniform distribution, can reduce friction and wear and prolong the life of seals
- The groove design is slightly different from the O-RING design.



## **FKM X-RING**

- Fluorocarbon/Viton
- Maximum Service Temperature : 392(°F)
- Minimum Service Temperature : -22(°F)
- Fluorine content : 66%
- Acid Resistance , Alkali Resistance , High Pressure , Abrasion Resistance , Ozone Resistance , Organic Solvent etc.It has good resistance to physical attack and chemical attack.
- The joint line produced during production is located in the center of the two sealing lips, which does not affect the sealing effect.
- Due to its special design, the force on the contact surface is uniform distribution, can reduce friction and wear and prolong the life of seals
- The groove design is slightly different from the O-RING design.



## FKM U-RING

- Fluorocarbon/Viton
- Maximum Service Temperature : 392(°F)
- Minimum Service Temperature : -22(°F)
- Fluorine content : 66%
- Acid Resistance , Alkali Resistance , High Pressure , Abrasion Resistance , Ozone Resistance , Organic Solvent etc.It has good resistance to physical attack and chemical attack.
- It mainly used in hydraulic and pneumatic equipment and can be used in both static and dynamic environments.
- Yangshin cooperates with the development of international standard USH, UPH, USI, UPI, DH ...



## PU U-RING

- Polyurethane/AU/EU
- Maximum Service Temperature : 176(°F)
- Minimum Service Temperature : -22(°F)
- Use in dynamic environments. Hygroscopic, not waterproof.
- Compression resistance, Abrasion resistance, Tear resistance
- It mainly used in hydraulic and pneumatic equipment and can be used in both static and dynamic environments.
- Yangshin cooperates with the development of international standard USH, UPH, USI, UPI, DH .



## FKM WASHER

- Fluorocarbon/Viton
- Maximum Service Temperature : 392(°F)
- Minimum Service Temperature : -22(°F)
- Fluorine content : 66%
- Acid Resistance , Alkali Resistance , High Pressure , Abrasion Resistance , Ozone Resistance , Organic Solvent etc.It has good resistance to physical attack and chemical attack.
- It is a common rubber seal. Its main functions are cushioning, shock absorption, and leakage prevention.
- Various sizes, hardness, and colors can be customized for development and production.
- Washer is all customized products, no specifications



## NBR WASHER

- Maximum Service Temperature : 194(°F)
- Minimum Service Temperature : -40(°F)
- Fuel Oil resistance, Lubricating Oil resistance, Organic Solvent resistance
- It is the most commonly used and relatively inexpensive rubber material.
- It is a common rubber seal. Its main functions are cushioning, shock absorption, and leakage prevention.
- Various sizes, hardness, and colors can be customized for development and production.
- Washer is all customized products, no specifications



## CR WASHER

- Chloroprene Rubber/Neopreno
- Maximum Service Temperature : 248(°F)
- Minimum Service Temperature : -58(°F)
- Used in automotive screw buffer parts.
- Compression resistance, Abrasion resistance, Fuel Oil, Lubricating Oil, Organic Solvent, Climate.
- It is one of the most widely used types of rubber material.
- Various sizes, hardness, and colors can be customized for development and production.
- Washer is all customized products, no specifications



## VMQ GASKET

- Silicone
- Maximum Service Temperature : 392(°F)
- Minimum Service Temperature : -94(°F)
- Fuel Oil resistance, Lubricating Oil resistance, Organic Solvent resistance
- The material itself has poor strength and is not resistant to high pressure, wear and tear.
- Used in static environments.
- Chemically stable. Non-toxic and tasteless.
- It belongs to the mechanical seal, which achieves the functions of leakage prevention and buffering in the two joints.
- Gasket and Packing are all customized products.



## NBR GASKET

- Maximum Service Temperature : 194(°F)
- Minimum Service Temperature : -40(°F)
- Fuel Oil resistance, Lubricating Oil resistance, Organic Solvent resistance
- It is the most commonly used and relatively inexpensive rubber material.
- It belongs to the mechanical seal, which achieves the functions of leakage prevention and buffering in the two joints.



## NBR GASKET

- Maximum Service Temperature : 194(°F)
- Minimum Service Temperature : -40(°F)
- Used in Automotive industry.
- Fuel Oil resistance, Lubricating Oil resistance, Organic Solvent resistance
- It is the most commonly used and relatively inexpensive rubber material.
- It belongs to the mechanical seal, which achieves the functions of leakage prevention and buffering in the two joints.
- Gasket and Packing are all customized products.



## FOOD GRADE VMQ PACKING

- Silicone
- Maximum Service Temperature : 392(°F)
- Minimum Service Temperature : -94(°F)
- Food grade Material certificate
- Drinking water grade Material certificate
- Chemically stable. Non-toxic and tasteless.
- Used in static environment
- The material itself has poor strength and is not resistant to high pressure, wear and tear.
- It belongs to the mechanical seal, which achieves the functions of leakage prevention and buffering in the two joints.
- Gasket and Packing are all customized products.



## Customized VMQ PARTS

- Silicone
- Used in 3C electronic products
- Body contact rubber parts.
- Chemically stable. Non-toxic and tasteless.
- The material itself has poor strength and is not resistant to high pressure, wear and tear.
- Used in static environment



## Customized FKM PARTS

- Fluorocarbon/Viton
- Maximum Service Temperature : 392(°F)
- Minimum Service Temperature : -22(°F)
- Fluorine content : 66%
- Used in automotive engine parts.
- Acid Resistance , Alkali Resistance , High Pressure , Abrasion Resistance , Ozone Resistance , Organic Solvent etc. It has good resistance to physical attack and chemical attack.



## Customized VMQ PARTS

- Silicone
- Used in 3C electronic products.
- Body contact rubber parts.
- Chemically stable. Non-toxic and tasteless.
- The material itself has poor strength and is not resistant to high pressure, wear and tear.
- Used in static environment



## Customized FKM PARTS

- Fluorocarbon/Viton
- Strong Alkali Resistance(PH 5~12).
- Used in chemical industry-Fiber dye machinery.
- Maximum Service Temperature : 392(°F)
- Fluorine content : 66%



## Customized NBR PARTS

- Rubber buffer
- Oil resistance.
- Used in electronic products.
- Maximum Service Temperature : 194(°F)
- Minimum Service Temperature : -40(°F)



## Customized NBR PARTS

- Rubber plug.
- Oil resistance.
- Used in hydraulic.
- Maximum Service Temperature : 194(°F)
- Minimum Service Temperature : -40(°F)



## Customized VMQ PARTS

- Silicone
- Rubber buffer
- Used in Food Machinery.
- Maximum Service Temperature : 392(°F)
- Minimum Service Temperature : -94(°F)
- Static environment
- Chemically stable.





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