

**GMORS®**  
*Seals to your heart*

# A Leading Brand in Rubber Seals





## GMORS

### The Leading Brand in Rubber Sealing Components

Based in Taiwan with manufacturing facilities expanded to China and Thailand, we adhere to the concept of international division of labor to promote our products globally. With our expertise in formula development, mold design, and consistent product quality, we have earned our customers' recognition and trust.

### Management Certifications

Adhering to the highest quality principle of "continuous improvement", GMORS has been recognized as a world-class manufacturing facility and has obtained various certifications as follows.



### Certified Quality System Approved In-House Lab with Integrated Equipment

GMORS Laboratory has obtained material testing reports certified by TAF (ISO/IEC 17025:2005) from over 60 countries.





General Industry



Automotive



Hydraulic & Pneumatic



Drinking Water



Agricultural



Renewal Energy



Oil & Gas



Aerospace



Healthcare



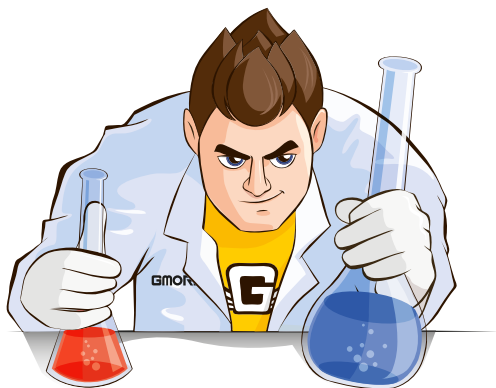
Semi-Conductor

## Servicing in Rubber Industry for All Kinds of Application

Established in 1986, GMORS has been a leading brand in rubber seals and components in Taiwan. With a spirit of innovation and continuous improvement, GMORS products have been widely recognized and used in various industries.

## Material Certified

Seals have a wide range of applications, and selecting the appropriate sealing material is crucial. With over 30 years of experience in manufacturing, GMORS has a laboratory certified by TAF (ISO/IEC 17025) to develop customized formulas for your specific needs and provide reliable data.



- NSF 61 (USA Drinking Water)
- NSF 42 (USA Drinking Water)
- WRAS (UK Drinking Water)
- ACS (France Drinking Water)
- W-270 (Germany Drinking Water-Microbial Testing)
- KTW (Germany Drinking Water)
- AS/NZS 4020 (Australian Drinking Water)
- USP VI (USA Biological Reactivity Test)
- UL 157 (Standard for Gaskets and Seals)
- UL 1238 (Standard for Control Equipment for Use with Flammable Liquid Dispensing Devices)
- API 6A (H<sub>2</sub>S Sour Gas Resistance)
- DIN EN 549 (Gas Appliances, gas equipment)
- NORSOK M-710 (ISO 23936) (Rapid Gas Decompression)
- NACE TM0297 (Rapid Gas Decompression)
- Total EP PVV 142 (Rapid Gas Decompression)



## GMORS Products

GMORS offers a wide range of products to meet the application needs of different markets, from standard O-Rings to customized seals. With a professional development team and laboratory, GMORS can provide suitable sealing solutions according to customer needs.



### O-Ring

Provide hundreds of thousands of O-Ring sizes and a variety of materials to meet different requirements.



### X-Ring

AS568 series at material of NBR and FKM.



### Back-up Ring

AS568 series at material of NBR 90 & FKM 90.



### Washer

Compared with O-Rings, washers are more capable of withstanding relatively higher pressure environments and they have a better service life.



### Hydraulic & Pneumatic Seals

Offer a series of excellent low-friction and wear-resistant seals for common applications in hydraulic and pneumatic cylinders.



### Centering Ring

Centering ring metallic material:  
Aluminum (Al), SUS304  
O-Ring material:  
NBR or FKM



### Infinite Size O-Ring

Manufacture non-standard large-sized O-Rings without bearing the high cost of mold tooling.



### V-Seal

VA, VL & VS series per customer design at material of NBR and FKM.



### S-Seal

The S-shaped seals are widely used in the oil and gas industry, and their standard sizes are designed to fit O-Ring AS568 standard groove dimensions.



### FS-Seal

GMORS FS-Seals are available in a number of elastomeric compounds including RGD resistant compounds that offer reliable solutions.



### T-Seal

The T-Seal's geometry prevents spiraling and because it utilizes rigid back-up materials, it can withstand very high pressures and large extrusion gaps.



### Hammer Union Seal

GMORS manufactures hammer union seals, from sizes 2" up to 4", in a number of compounds including RGD resistant compounds.



### Packer Element

Packer element has high toughness and cushioning properties and is used to protect drilling pipelines from wall collisions. GMORS provides customized Packer element products.



### LSR

All GMORS LSR products are molded in clean environment or class 1000 cleanroom environment.



### Metal-Bonded Rubber Seal

GMORS manufactures a variety of customized metal-bonded rubber seals, utilizing our extensive expertise to provide our customers with optimal metal-to-rubber bonding.



### Diaphragms

Combine materials such as nylon and polyester fibers, etc. for our products. For more information, please contact our sales representatives by phone.



### Rubber Ball

The rubber ball is suitable for use in the petroleum industry where there is contact with hydraulic fluid, gasoline, water, silicone oil and other media.



### Grommets

Grommets are made of rubber or other elastomer which can reduce the vibration in the transmission, particularly in the equipment subjects to vibration or jarring.



### PTFE Coating Process

Coating materials: molybdenum disulfide, graphite, PTFE, etc. For product details, please contact our sales representatives.



### O-Ring Kit

Standard size AS568, JIS, Metric in Material NBR 70 - 90 duro, FKM75 - 90 duro.



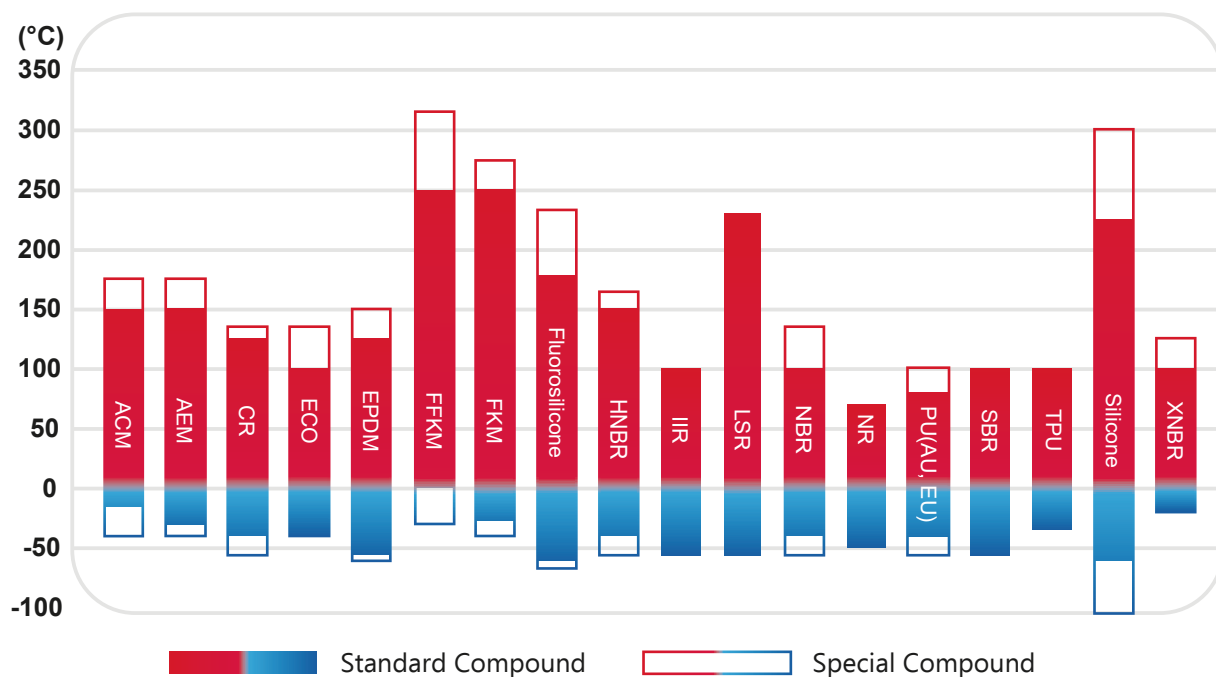
### Customized Parts

GMORS has a professional team that can provide comprehensive customized sealing solutions according to specific requirements.

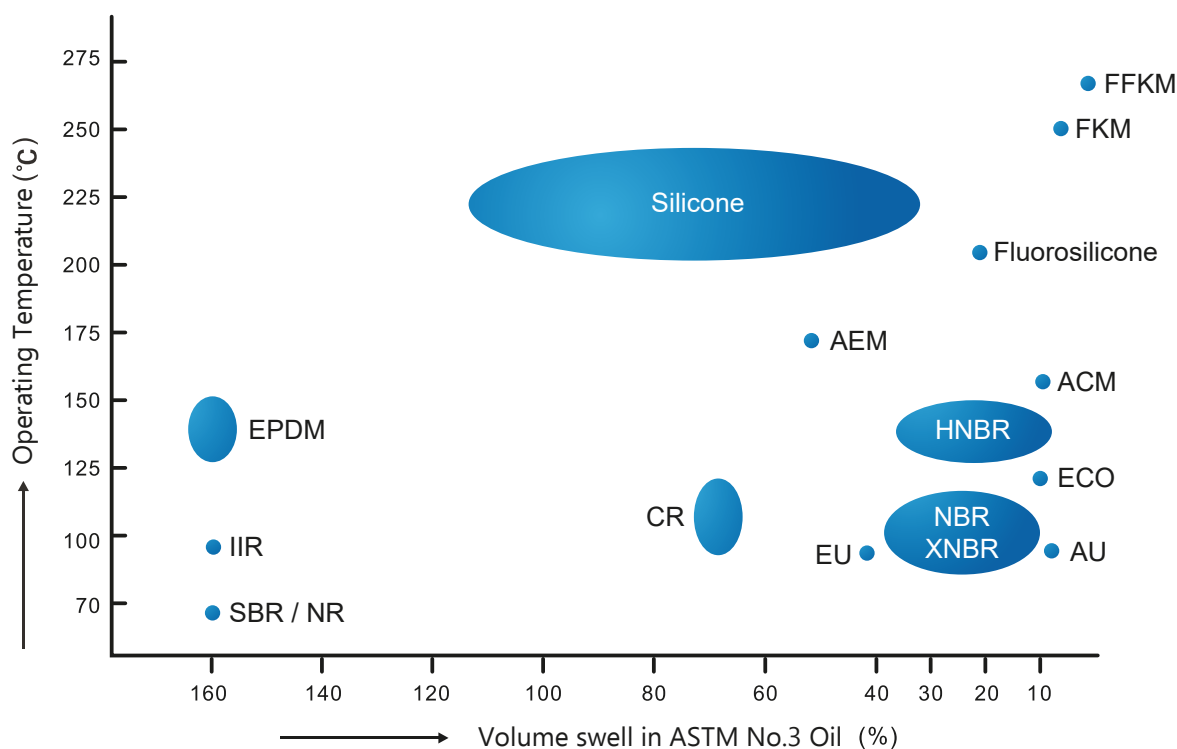
## General Properties of Elastomers

GMORS sources its rubber materials from top suppliers in the industry, such as Chemours, Solvay, Daikin, Dupont, Dow Corning, Shin-Etsu, Nippon Zeon, Bayer-Polysar, Toshiba, and more.

### • Chart of Operating Temperature Range



### • Oil and Heat Resistance Comparison Chart

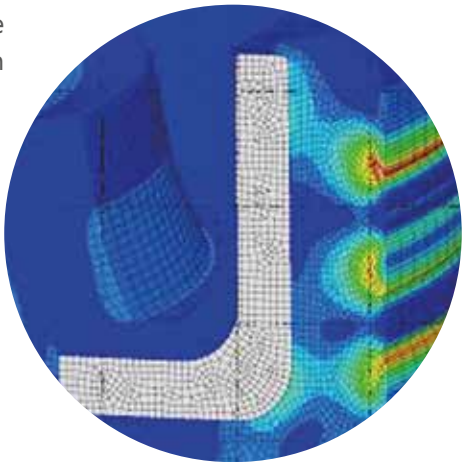
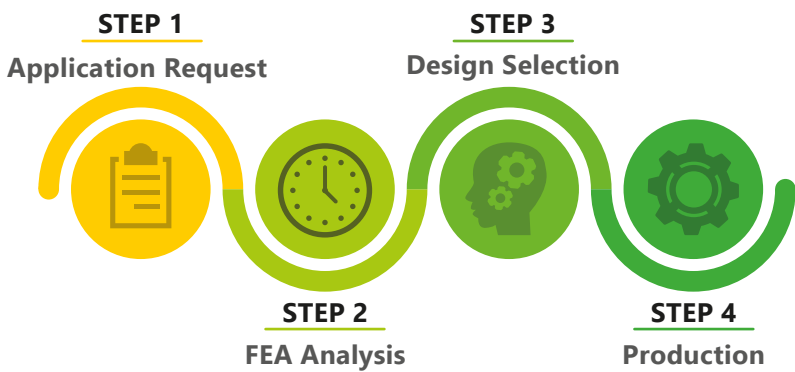






## Professional Experience in Sealing Design & Suggestion

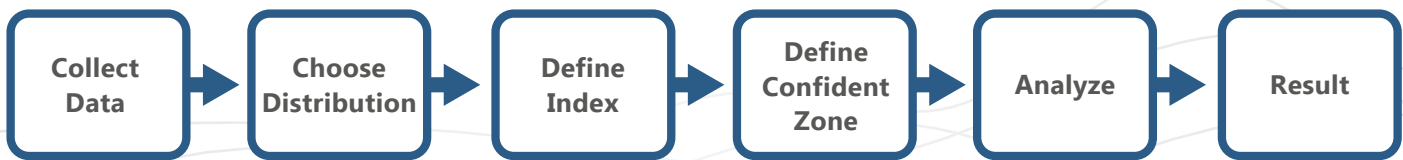
GMORS application team explore an innovative sealing solution to enhance the properties, reliability, lifetime and durability of seals through FEA (Finite Element Analysis) and advanced design capabilities. We listen to and work with our customers to come up with innovative solutions and new breakthroughs.



## Reliability

Reliability can easily be confused with quality. In fact, the two are essentially different. In simple words, reliability is "how performance changes over time". Users are most concerned about cause of product failure and product lifetime. GMORS labs can perform reliability analysis of seal materials through experimental simulation according to the user's application environment, thereby providing users with the most trusted seal products.

### Reliability(Weibull) Analysis Flow Chart



## APP應用程式



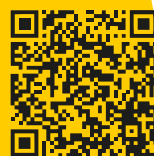
### O-Ring Master

GMORS O-Ring Master is the completed tool for standard rubber seal sizes. When you use this APP, you don't need to have internet. In addition to O-Ring sizes, it also includes the search functions of X-Ring and Back-Up Ring. You can also use O-Ring Housing to choose suitable O-Ring in your application.



### Material Master

GMORS Material Master give you the materials recommendation for your O-Ring application, based on the working temperature and medium of working environment. We provide thousand kinds of environment condition for compatibility evaluation. In addition, GMORS provide certified rubber compounds for various international standards, such as NSF61, WRAS, ACS, KTW, W-270, DIN EN 549, UL 157, API 6A, NORSOK M-710, TOTAL EP PVV 142 and NACE TM0297. Please email us for further information.



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