



HUTCHINSON®

We make it *possible*

FLAT GASKETS

FOR INDUSTRIAL APPLICATIONS



FLAT GASKETS HIGH PERFORMANCE AND DURABILITY



Thanks to its expertise in materials science and engineering, Hutchinson designs and manufactures high-performance standard or custom sealing solutions. From the formulation of compounds to the production of seals in small or large series, we control the entire value chain.

Rubber flat gaskets provide a reliable sealing between two flat surfaces to prevent gas or liquid leaks at the connections. They offer high resistance and durability under all operating conditions, including exposure to different fluids, pressures and nominal temperatures. They are used in various industries, including automotive, plumbing, and manufacturing, to seal flat surfaces like flanges, joints, and covers.



BENEFITS

- **Reliability:** exceptional durability
- **Safety:** leak prevention, ensuring safe operation
- **Efficiency:** pressure maintenance for optimum distribution

SOLUTIONS FOR A WIDE RANGE OF MARKETS AND APPLICATIONS



Food Industry



Drinking Water



Cosmetics



Automotive



Aerospace



Oil & Gas



Defence

Aerosol



Flat gaskets ensure the sealing of aerosols by preventing gas or liquid leaks. They guarantee that the contents of the aerosol are correctly pressurized and delivered efficiently.

We offer a complete range of internal and external gaskets with validated rubber compounds : NBR (8PC2489 - 7PB2995), Butyl (8BU1941 - BU806), FKM (8DF1370). Other compounds are available on demand.

Water Control



In valve systems, flat gaskets ensure a perfect seal between the different components. They prevent fluid leakage, ensuring the safety and efficiency of water control systems. They can withstand various pressures and temperatures, extending equipment life and reducing maintenance requirements.

We offer solutions that comply with drinking water standards in EPDM (EP506 - 7EP1197 - P856).

Gas Applications



Flat gaskets are crucial for protecting CGA (Compressed Gas Association) valves and compressed gas cylinders, ensuring secure and leak-free connections.

A range of compressed gas protection gaskets are offered to meet the requirements of different industries and application requirements: oil and gas, medical, domestic gas...

CUSTOMIZED SEALS FOR OPTIMAL PERFORMANCE

Thanks to our expertise in materials and design (CAD, finite element simulation), we develop seals tailored to the operating environment and meet the increasingly stringent market requirements for compliance.

- Our team of process engineers and materials specialists develop tailor-made solutions, even for unusual applications.
- Our laboratory carries out tests and trials in accordance with the latest standards, ensuring product performance that fully meets customer needs.



COMPOUNDS MEETING STRICT REQUIREMENTS

Our experts help you determine the most suitable compound considering the process fluid and usage conditions for your application.

We formulate and manufacture our own elastomer compounds. Our range of materials includes NBR, FKM, EPDM, ACM, AEM, and IIR.

Features by rubber family	ACM	AEM	EPDM	FKM	IIR	NBR	VMQ
Hardness (Shore A)	60-70	60-70	40-90	60-80	70-80	50-90	50-80
Temperature (°C)	-30 to 170	-40 to 150	-50 to 150	-15 to 250	-50 to 120	-40 to 100	-60 to 250
Ethanol Resistance	1	2	5	5	5	4	4
Oil and Hydrocarbon Resistance	5	4	1	5	1	4	2
Water Resistance	1	1	5	4	5	5	5
Gas Impermeability	1	1	1	5	5	4	1

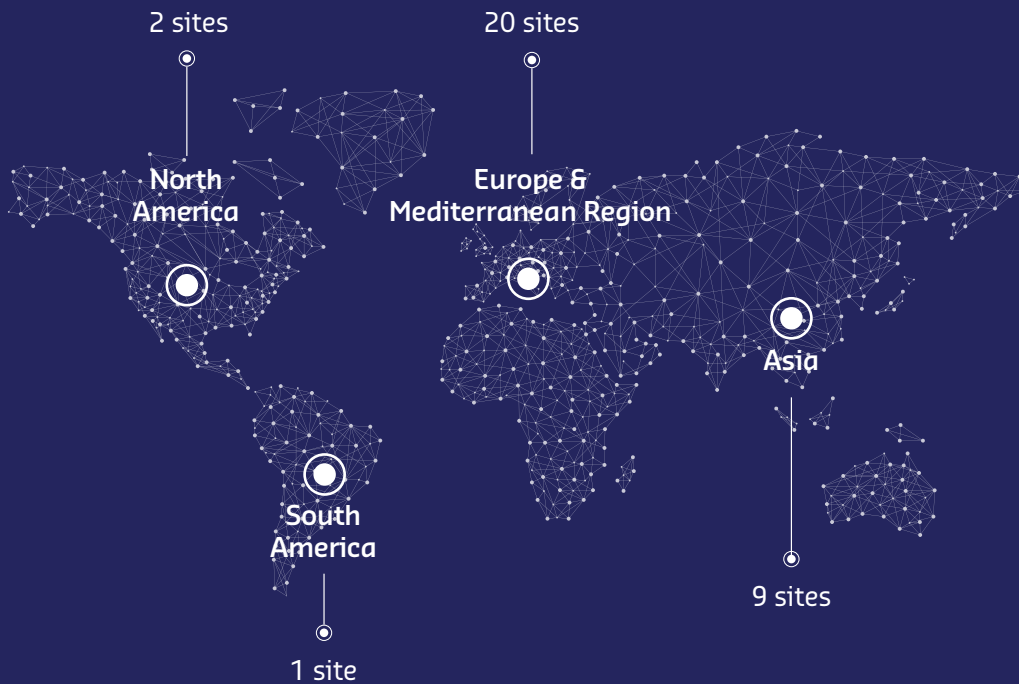
Rating scale from 1 (not recommended) to 5 (excellent resistance)

Specific compounds available:

- Drinking water certifications (DVGW, ACS/CLP, WRAS)
- FDA positive list compliance 21CFR177.2600
- Gas certification (EN549 and EN682)
- Specific properties (abrasion, fire resistance, gas impermeability...)



HUTCHINSON PRECISION SEALING SYSTEMS AROUND THE WORLD



ABOUT HUTCHINSON PRECISION SEALING SYSTEMS

Hutchinson is a French leading manufacturer of sealing solutions. We design and manufacture static and dynamic sealing solutions, magnet rings, foams and composites to meet the most demanding requirements.

Our 170 years experience has earned us the trust of the major players in the automotive, aerospace, defense, energy, railway and industrial markets.

With 32 sites in 18 countries, Hutchinson Precision Sealing Systems employs nearly 6,650 people and has a turnover of over €700M.



Contact us and visit our website
pss.hutchinson.com

ABOUT HUTCHINSON



€4.8 bn
turnover



25
countries



5% invested
each year in
Research &
Innovation



100 sites
around
the world



> 40,000
employees



French
company