



We make it ***possible***

# PRECISION SEALING SYSTEMS ENERGIES





# EVERYWHERE WHERE ENERGY FLOWS



From the production to the distribution of electrical energy, we work to ensure that energy installations benefit from safe and durable sealing solutions. Our products meet the highest requirements of the sector, where applications are subject to heavy stress.

By developing compounds that comply with the new g<sup>3</sup> gas with a lower GWP (Global Warming Potential), Hutchinson is helping manufacturers to move towards a more environmentally friendly technology.

## PRODUCTION

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Our sealing solutions are subject to high stresses (fluid, temperature, pressure) in many applications. They resist to heavy conditions, in environments with high thermal amplitude, exposed to extreme cold, onshore and offshore.

### Technical advantages

- > Chemical resistance and resistance to corrosive agents
- > Very good mechanical resistance

### Electrical energy sources

Biomass  
Wind power  
Solar energy  
Marine energy  
Gas  
Geothermal  
Hydraulic  
Hydrogen  
Nuclear (excluding PMUC, non-radioactive)

## TRANSFORMATION

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The developed compounds comply with the most strict international industrial requirements for these environments. They provide sealing in medium and high voltage applications.

### Technical advantages

- > Very good behavior to dielectric gas g<sup>3</sup> (Butyl)
- > Range of EPDM compounds with unmatched low and high temperature performance
- > Good dielectric properties
- > Very large size range

### Equipments

Thermoelectric converters  
Turbines and thermal motors  
Transformers  
Circuit breakers  
Bushing

## STORAGE

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The performance of our compounds guarantees an optimal sealing of direct storage equipment.

### Technical advantages

- > Long lasting elasticity (very low CS)
- > Good electrochemical compatibility
- > Good resistance to low and high temperatures

### Materials

Super capacitors  
Lithium technologies

## TRANSPORT

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The performance of our rubbers guarantees the sealing of electrical power transmission and distribution sub-assemblies.

### Technical advantages

- > Extreme cold resistance
- > Long-lasting elasticity

### Equipments

Disconnectors  
Transformers  
Cable joints

## SEALING SOLUTIONS



### O-RINGS

- > Wide range of standard dimensions in stock
- > Dimensional standards (AS568, BS1806, Bague R...)
- > Available features: cleanliness (white room), surface treatments, traceability (micro-engraving)



### X-RINGS

- Development according to your specifications
- > Compounds and solutions optimizing assembly, friction etc...
- > Characterization & soaking tests in our laboratories
- > Finite elements calculations



### BONDED SEALS

- > Bi-material seals (metal/rubber) used for screw, bolt, connector or flange assembly.

## ELASTOMERS COMPOUNDS FOR THE ENERGY MARKET

We offer a range of approved compounds for sealing solutions that may come in contact with energies:

Family	Compounds	Hardness (Sh.A)	Colour	Min T°C	Max cont. T°C	Max peak T°C	CS	CS Conditions	Characteristics
EPDM	7EP1881	70	●	-50	140	175	10%	24h 150°C	If dielectric requirement+ low T°C resistant
EPDM	EP7010	72	●	-50	140	175	12%	24h 150°C	SF6 Gas resistant
EPDM	EP851	80	●	-50	140	175	12%	24h 150°C	SF6 Gas resistant
FKM	7DF2067	72	●	-25	200	250	20%	72h 200°C	Oil resistant + color
FKM	7DF2116	74	●	-35	200	250	20%	72h 200°C	Oil resistant + color + low T°C resistant
FKM	DF801	79	●	-25	200	250	18%	72h 200°C	Oil resistant + high T°C resistant
FKM	DF901	91	●	-25	200	250	20%	72h 200°C	Oil resistant + high T°C resistant
FVMQ	7SF1744	67	●	-60	175	200	12%	72h 150°C	Oil resistant + low T°C resistant
HNBR	7DT1877	70	●	-30	125	165	22%	72h 150°C	Ozone resistant
IIR	7BU2359	68	●	-45	125	175	10%	24h 125°C	G <sup>3</sup> gas resistant
VMQ	SL1000	72	●	-50	200	225	15%	72h 150°C	Low T°C resistant
VMQ	SL1002	60	●	-50	200	225	20%	72h 150°C	Low T°C resistant
NBR	PB701	68	●	-30	100	120	12%	24h 100°C	Very low CS
NBR	PC851	78	●	-30	100	120	15%	24h 100°C	Very low CS
NBR	PD853	79	●	-40	90	120	15%	24h 100°C	Low T°C resistant



## SITES AROUND THE WORLD



## ABOUT US

Leading Manufacturer of Precision Sealing Systems, Hutchinson designs and manufactures standard and custom-made sealing solutions, such as O-Rings, X-Rings, and Bonded Seals.

From the compounds formulation and production to the conception and production of the parts in small or large series, we do everything in our plants.

Thanks to our One Plant Concept, we ensure that all our processes are consistent in every country we manufacture in, so we can guarantee the same level of quality while producing close to our customers.



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## ABOUT HUTCHINSON



€4.4 Md  
turnover



25  
countries



5% invested  
each year in  
research &  
innovation



100 sites  
around  
the world



> 38 000  
employees