



HUTCHINSON®

NATIONAL O-RING

We make it ***possible***

PRECISION SEALING

OIL & GAS



In-house Manufacturing, Safe Sealing



HUTCHINSON GROUP



> 43.000
employees



25
countries



95
sites



215 M€
R&D



> 4.100 M€
turnover

www.hutchinson.com

For 160 years, Hutchinson has designed, developed and manufactured high performance rubber products for the automotive, aerospace and industry markets. Trust a worldwide leader, guarantee your peace of mind.

Active in the Oil & Gas industry for more than 30 years, Hutchinson provides engineered solutions to control motion, vibration, shock and guarantee sealing: connecting risers, tendons for the platform, valve components and sealing systems.



A TOTAL company **TOTAL**



IN-HOUSE MANUFACTURING, SAFE SEALING

We develop sealing solutions such as O-Rings, gaskets and flange seals for the OEM & MRO industries of the Oil & Gas market.

They are adapted to the refining, to the upstream sector like drilling equipments, valves, pumps, BOP and safety elements.

All provided parts are manufactured in our plants, using the highest industry standards in order to meet the safety and durability requirements of the offshore markets.

Our parts are made to withstand the harsh environments of the oil field assuring protection and peace of mind.



50 millions Hutchinson O-rings are assembled every year in oil prospecting and drilling equipments.

SEALING SOLUTIONS



O-RINGS

Rubber compounds compatible with Oil & Gas fluids (natural gas, fuels, oils, naphtha,...) and other chemicals

- > From 60 to 98 Shore A
- > Low to high pressure
- > Temperatures from -40 °C to +250 °C



TAILOR-MADE SOLUTIONS

Development according to your specifications

- > Compounds and solutions optimizing assembly, friction etc...
- > Characterization & soaking tests in our laboratories
- > Finite element calculation



PAMARGAN FLANGE SEALS (PFS)

The PFS optimizes pipe and valve sealing.

It provides the Oil & Gas industry with increased confidence, improved environmental protection, lower maintenance and downtime and a safer working environment.

PFS competitive strengths, compared to spiral wound gaskets:

- > Compression stop
- > Wide temperature range
- > Resistance to field use
- > Sealing retention, reusable
- > Blow-out preventer
- > Ease of installation

RGD TESTING BENCH

Simultaneously testing up to 24 O-Rings, following all international standards (Norsok M710B, ISO 23936-2, NACE TM0) and specifications like Total GS PVV142

- > Until 400 bar
- > Temperature: 200 °C
- > Fluids: CO₂ or CO₂ / CH₄ in any combination

AED APPROVED COMPOUNDS

Compounds	Elastomer	Cure	Hardness (Sh A)	Test conditions
T49/TED	HNBR	Peroxide	98	1-3 ✓
T48/TED	HNBR	Peroxide	90	3 ✓
T57/VED	FKM	Bisphenol	90	1-3 ✓
T57/GED	FKM	Peroxide	90	1-3 ✓
T57/FED	FKM	Peroxide	90	3 ✓
V95	FKM	Peroxide	95	1-4-5-6 ✓
T58/VED	FKM	Bisphenol	98	1-2-3 ✓
T58/GED	FKM	Peroxide	98	1-3 ✓
T58/FED	FKM	Peroxide	98	1-2-3 ✓

Explosive decompression test conditions

Tested on O-Ring #312 (15.24 x 5.33 mm)

Norsok M710B - CH₄/CO₂

1. 90/10; 150 bar, 100 °C
2. 90/10; 150 bar, 120 °C

Total GS PVV 142 03/01 - CH₄/CO₂

3. 80/20; 190 bar, 75 °C
4. 80/20; 400 bar, 90 °C
5. 80/15, 5 % H₂S; 400 bar, 90 °C
6. 80/20, 400 bar, 120 °C



Many other NBR, HNBR and FKM compounds are suitable for O&G general applications. Some of them are available on stock.





HUTCHINSON®

NATIONAL O-RING

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