



HUTCHINSON®

We make it *possible*

## PRECISION SEALING FOR HEATING APPLICATIONS



In-house Manufacturing, Safe Sealing



**HUTCHINSON GROUP**

 <b>&gt; 43,000</b> employees	 <b>95</b> sites	 <b>25</b> countries
<b>&gt; 4,100 M€</b> turnover	<b>153 M€</b> investments	<b>215 M€</b> R&D

[www.hutchinson.com](http://www.hutchinson.com)

## PRECISION SEALING MAKES YOU ENJOY THE WARMTH

One of the worst things happening on a cold and icy day is when the heater is going on strike because of a simple seal. Long term reliability of the heating device is mandatory and by handling gas and water, it has to be tight for lifetime.

For decades, Hutchinson develops and produces sealing solutions like O-Rings, X-Rings, special shape seals and bonded seals. All provided parts are manufactured in our plants, using the highest standards in the industry in order to meet the safety and reliability requirements of the heating market.

Our sealing solutions are used in the gas and water circuits by many manufacturers of heaters, thermostats, pumps and piping systems.

Hutchinson has a wide range of drinking water and EN549 homologated compounds, which together with a sophisticated application engineering make sure that you are always on the safe side.



Hutchinson guarantees the highest quality and performance over a long time.  
In-house Manufacturing, Safe Sealing



## O-RINGS

Rubber compounds compatible with heating fluids such as water, gas or oils

- > Wide range of dimensions
- > Corresponding to international dimensions standards AS568, BS1806, ISO3601, LJF Bague R, JIS B2401 and customized dimensions



## TAILOR-MADE SOLUTIONS

Development according to your specifications

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



## BONDED SEALS

Bi-material seals for flange sealing in applications using gas or liquids, up to 2000 bars

- > Metal washer: many materials & anticorrosive surface coatings
- > Rubber: standard and specific compounds

## RUBBER COMPOUNDS

- > NBR, FKM EPDM, HNBR, ACM, AEM, IIR, CR, VMQ, FVMQ ...
- > From 50 to 98 Shore A
- > Low to high pressure
- > Temperatures from -50 °C to +250 °C

# ▶ WATER & GAS APPROVED COMPOUNDS

	Family	Compound	Color	Hardness	CS*	Approvals
drinking water	EPDM	6EP1862	black	60 Sh A	18%	2; 5
	EPDM	7EP1197	black	70 Sh A	12%	1; 2; 4; 5; 6; 7; 8; 9; 10
	EPDM	EP856	black	80 Sh A	12%	1; 2; 5; 6; 7; 10
	NBR	7PD1612	black	74 Sh A	10%**	1; 2; 5; 6; 8; 10
domestic gases	FKM	DF801	black	78 Sh A	18%	1: H3E1 (0°C/+150°C) 2: H80
	HNBR	7DT2146	yellow	70 Sh A	27%	1: H3D2 (-20°C/+125°C) 2: GBL
	NBR	PB701	black	68 Sh A	12%	1: H3B2 (-20°C/+80°C)
	NBR	PC851	black	79 Sh A	15%	1: H3B1 (0°C/+80°C)
	NBR	7PD1612	black	74 Sh A	10%**	1: H3B2 (-20°C/+80°C)
heating water	EPDM	6EP1385	black	62 Sh A	18%	
	EPDM	EP7010	black	72 Sh A	12%	
	EPDM	EP851	black	83 Sh A	12%	

### Drinking water approvals:

- 1-ACS
- 2-DM174
- 3-EN681-1
- 4-KIWA
- 5-KTW/UBA
- 6- W270
- 7-W534
- 8-NSF
- 9-ÖNORM
- 10-WRAS

### Gas approvals:

- 1-EN549
- 2-EN682

\*Conditions of compression set:

EPDM: 24h at 150°C HNBR: 72h at 150°C  
FKM: 24h at 200°C NBR: 24h at 100°C/ 125°C\*\*





# HUTCHINSON®

## ▶ OUR LOCATIONS



## ▶ SALES OFFICES

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