



HUTCHINSON®

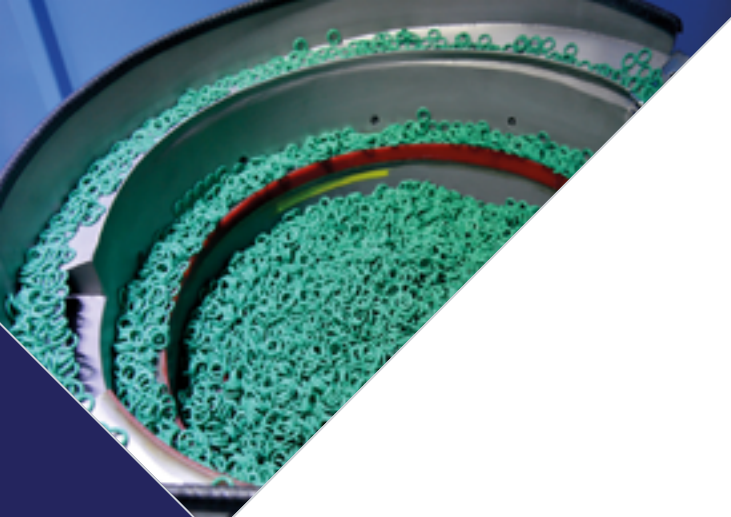
We make it *possible*

SURFACE TREATMENTS

High performance



In-house Manufacturing, Safe Sealing



HUTCHINSON GROUP



> 44,000
employees



25
countries



100
sites



211 M€
R&D



> 4,100 M€
turnover

www.hutchinson.com



IMPROVED SURFACE EFFICIENCY

As an expert in precision sealing, Hutchinson offers a whole range of high performance surface treatments.

These treatments optimize the O-Ring surface to the specific conditions of use. They are tested and validated according to customers standards and requirements.

Our surface treatments are developed and applied in our plants in order to guarantee optimal quality.

Our processes respect both the environment and current regulations, and preserve the rubber characteristics.



ADVANTAGES

- > Reduce insertion forces
- > Reduce friction forces and seal wear for dynamic applications
- > Enable distinction between two identical seals (Poka-Yoke)
- > Facilitate use in automatic feeding O-Ring distribution systems



OUR SURFACE TREATMENTS



Marking



Powders









Wet films



Dry coatings



Chemical treatments

DESIGNATION	COLOR	ASPECT	COMPATIBILITY		APPROVALS	Assembly aid Non-permanent treatment	Assembly aid Permanent treatment	Aid to automatic feeding	Dynamic application	Color coding
			ELASTOMER FAMILIES	CLEANLINESS REQUIREMENTS						
 Marking (surface or line)	blue, green, orange, red, yellow, white	-	all except silicone	yes		-	-	-	-	++
 Talcum	white	mat	all	no		0	-	++	-	-
 Molycoting	silvery	very shiny	all	no		0	-	++	-	-
 Lubrifilm SG	transparent	non-oily grease	AEM, EPDM, FKM, FVMQ, HNBR, NBR	no		++	-	-	-	-
Lubrifilm FP	transparent	greasy, slightly shiny	AEM, EPDM, FKM, FVMQ, HNBR, NBR	yes		++	-	0	-	-
Lubrifilm FP-ST				yes		++	-	-	-	-
Silicone HF	transparent	greasy, very shiny	all except silicone	no	drinking water	++	-	-	-	-
Silicone GE	transparent	greasy, very shiny	all except silicone	no		++	-	-	-	-
Lubricoat A WB3-N	black, blue, green, orange	dry	AEM, EPDM, FKM, HNBR, NBR	yes		-	++	+	+	++
Lubricoat H	blue, orange, transparent	dry	ACM, AEM, FKM, HNBR, NBR	yes		-	0	+	++	++
 Lubricoat I	blue, orange, transparent (slightly milky)	dry	EPDM, FKM, HNBR, NBR	no	drinking water (IT version)	-	+	+	-	++
Lubricoat J	blue, green, orange, red, transparent, white	dry	AEM, EPDM, FKM, HNBR, NBR	no		-	-	++	-	++
Lubricoat KT	transparent	dry	AEM, EPDM, FKM, HNBR, NBR	yes		-	++	+	-	-
 Lubri PB	transparent	dry	principalement NBR	yes		-	0	+	++	-

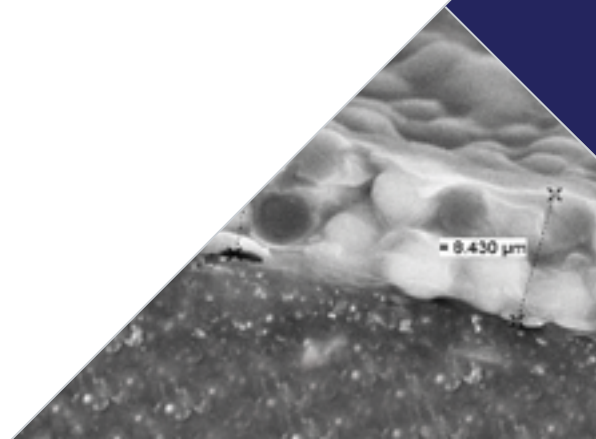
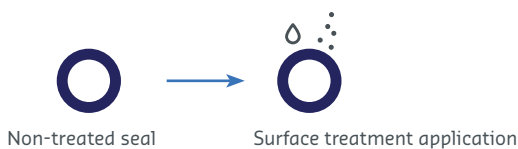
- Not applicable
- o Moderately suitable
- + Suitable
- ++ Highly suitable

OUR PROCESS

SPECIFIC PROCESS FOR LUBRICOATS



GENERAL PROCESS FOR SURFACE TREATMENTS





HUTCHINSON®



WORLDWIDE LOCATIONS



We make it *possible*



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