



HUTCHINSON®

We make it ***possible***

PARTICLE CLEANLINESS
FOR O-RINGS



ENSURING PERFORMANCE AND LONGEVITY OF THE SEALING CIRCUITS

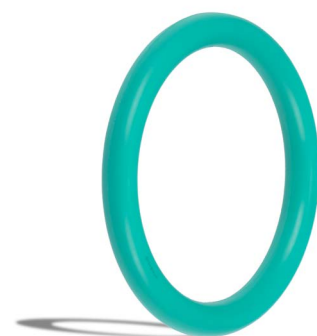


Particle cleanliness plays a crucial role in the performance and durability of O-Rings. Particles present in circuits can compromise the efficiency of O-Rings. By eliminating these particles, we can guarantee optimum circuit tightness over the long term.

A CONTROLLED CLEANLINESS ENVIRONMENT

The presence of particles in a sealing circuit leads to a significant increase in wear and tear on the system when it is first used, which can lead to irreversible failures (deterioration of mechanical components, sealing problems, etc.).

As a leader in precision sealing and expert in rubber since 1853, Hutchinson has implemented washing and packaging processes that meet the strictest cleanliness requirements of our customers. Our process is based on the use of advanced techniques to effectively reduce particulate contamination, while respecting the environment and preserving the integrity of O-Rings. Particulate cleanliness concerns the entire manufacturing chain, from production to the customer's assembly station.



CLEANLINESS LEVELS

We have defined four levels of cleanliness - standard, intermediate, severe and very severe - based on gravimetry and particle size criteria (from 15 µm) to meet the requirements of the world's leading automakers and equipment manufacturers in fuel, braking, cooling, air-conditioning and other applications. For every component, system or module - valves, pumps, sensors, solenoid valves, injectors, etc. - a cleaning solution is available.

For more information, please contact our sales and applications team.



PARTICLE CLEANLINESS MEASUREMENT

Our In-House cleanliness measurement laboratories comply with the recommendations of ISO16232 version 2018 and VDA 19.1. O-Rings are tested according to a defined frequency.



WASHING AND PACKAGING IN ISO 7 CLEANROOMS

In the cleanroom, the O-Rings are washed, dried and then packed in double bags for severe and very severe levels of cleanliness.

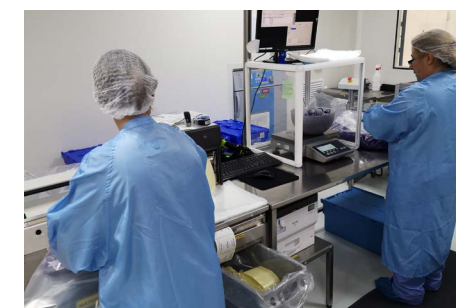


ONE-PLANT CONCEPT

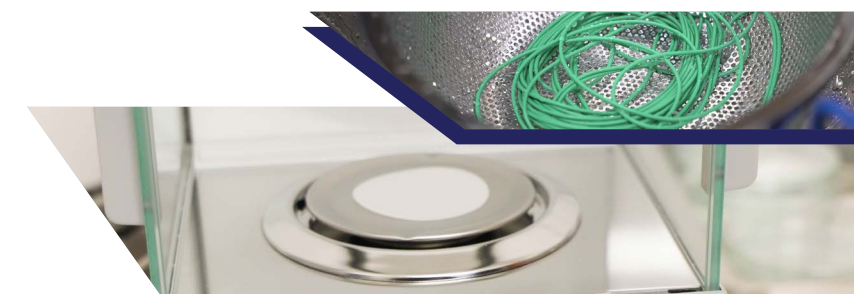
The two O-Ring production sites in Europe, Château-Gontier (France) and Campo Maior (Portugal), are equipped with the same washing facilities and ISO 7-certified cleanrooms (in accordance with ISO 14611-1).



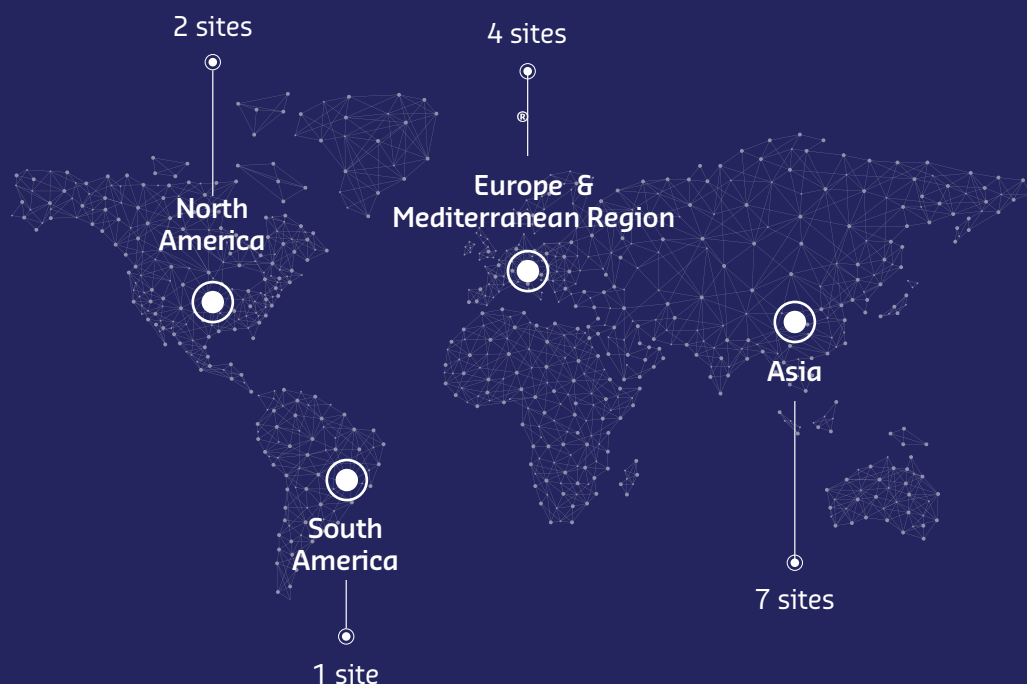
ISO 7 cleanroom packaging
Château-Gontier-sur-Mayenne, France



ISO 7 cleanroom packaging
Campo Maior, Portugal



HUTCHINSON® O-RINGS & BONDED SEALS SITES AROUND THE WORLD



ABOUT US

Leading manufacturer of sealing solutions, Hutchinson® designs, develops and manufactures standard and tailor-made solutions: O-Rings, X-Rings, Bonded Seals and shape seals.

We manufacture our rubber compounds from various family of elastomers in our own laboratories and compounding installations, guaranteeing consistent quality at the highest level. We have a wide range of approved elastomer compounds for different markets.

Hutchinson® is present throughout the world, close to its customers and responds to the needs and requirements of industry.



www.oring.hutchinson.fr/en

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HUTCHINSON KEY FIGURES



4,8 bn €
turnover



25
countries



5% invested
each year in
research et
innovation



100 sites
around
the world



> 40,000
employees



French
company