



High performance
polymer sealing
solutions *for the*
**Semiconductor
Market**



www.nes-ips.com

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NES is an experienced and agile business, dedicated to providing advanced sealing solutions for some of the world's most demanding and safety critical applications.

Serving a wide range of customers and end markets, we combine strong technical abilities and product development expertise with a dedicated Customer Focus. This ensures we are always responsive, aware and proactive within a dynamic market.

With more than 30 years of experience in developing and manufacturing polymer sealing components, NES has built an impressive knowledge base and in-depth understanding of the unique and specific requirements of each market we serve. This ensures that

our polymer sealing solutions meet all legislative and manufacturing performance standards.

- Extensive portfolio of high performance elastomer materials
- Custom development of products
- Scalable solutions
- Expert technical support and advice - before, during and after the project
- A fiercely guarded reputation for on-time delivery
- Responsive, experienced technical people, working in partnership with your team
- Certification to major industry standards
- Quality assured - manufactured in the UK under Aerospace AS9100 quality system



Effective and innovative - meeting the challenges of your industry

Every industry should push its boundaries; we are firm believers in that and it is a part of our corporate DNA.

In meeting the needs of the semiconductor market we constantly challenge our own processes, products and solutions to ensure that they are the most technically advanced. This means we are able to meet and exceed client expectations and are qualified to major industry standards.

NES also provides a comprehensive range of services designed to assist with material selection, materials testing and failure analysis.

Our industry approvals include:
FDA, 3-A, USP Class VI, EC1935/2004, EC2023/2006, ADI-FREE & WRAS.

All quality certificates can be downloaded from our website at www.nes-ips.com



High performance materials optimised for Semiconductor applications

NES offers a comprehensive range of high performance sealing materials and solutions, optimised for demanding and performance-critical applications, such as high vacuum semiconductor lithography machines, within the Semiconductor Industry.

From standard off-the-shelf vulcanised O rings through to engineered, bespoke rubber to metal moulding solutions, **NES deliver on time and on budget** be it for one-off or volume quantities.

- Compatible with most process media
- On-site clean room (ISO6/class 1000 level) and specialist 'vac-pac' packaging to ensure a high state of cleanliness
- Marketing leading bonding process including Viton® to titanium
- Verified low out-gassing materials suitable for contamination critical applications
- Operating temperatures in the range from -20°C to +204°C (-4°F to +400°F)
- Full manufacturing traceability to customer requirement

Material Types	Temperature Range °C	Colours	Certifications	Hardness Data
EPDM	-40 to +140	Black, white	FDA, USP Class VI, 3-A	50-90
FFKM	-15 to +327	Black, white	FDA	60-90
FKM	-47 to +250	Black, white, brown	FDA, USP Class VI, 3-A	45-90
FVMQ	-30 to +150	Grey, black	FDA	45-85

Please note that the above mentioned materials may be subject to development.

NES sealing solutions

Innovative, versatile,
high-performance, supportive

NES is dedicated to providing the complete package; not just excellent products that perform as required, but also comprehensive customer support and technical advice on any sealing solutions matter.

Our team of experts provide a complete consultancy service to assist with material selection, compatibility assessment and trouble shooting.

A collaborative approach, with client interaction throughout, is our tried and tested formula for a successful project. It works - and we would like you to put it to the test.



Our Value Proposition

NES is an agile business that has a diverse range of **capabilities** that facilitate the provision of high quality **value** added solutions to a wide range of customers and end markets. With strong technical capabilities and expertise provided in-house through our dedicated **people** we provide **customer focus** that is responsive to ever changing circumstances.

People

- Experienced
- Approachable
- Technical expertise
- Socially responsible
- Continuous improvement culture

Customer Focus

- Responsive to needs
- Strong customer loyalty
- Emergency service
- New product development

Capabilities

- Innovative solutions
- Scalable production
- Purpose built
- In house extrusion
- Comprehensive product range

Value

- Repeatable quality
- Value added product
- Build to print
- Technical competence and advice

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