Life Sciences & Medical

ceetak SEALING SOLUTIONS

Product Overview

O-Rings
Standard size ranges include; AS568, DIN 3771, ISO 3601 and JIS B2401. Custom sizes available on request.

Moulded Seals & Gaskets
Available in virtually any range of shape and cross section. We design and manufacture engineered elastomeric shapes, both homogenous and inserted, for sealing systems and isolation applications.

Precision Elastomer Seals
Bio-compatible precision-elastomeric medical components manufactured in USP Class VI and ISO 10993 compliant materials.

PTFE Seals
Our full line of spring-energised PTFE lip seals are used in rod, piston, face and rotary sealing applications.

2-Shot mouldings
Allows integration of several functional aspects to give cost, ease of assembly and product reliability advantages. Material combinations are optimised to meet application demands.

Composite Seals
Rubber-to-metal or rubber-to-plastic custom engineered sealing solutions allow for the integration of multiple components with unique sealing geometries.

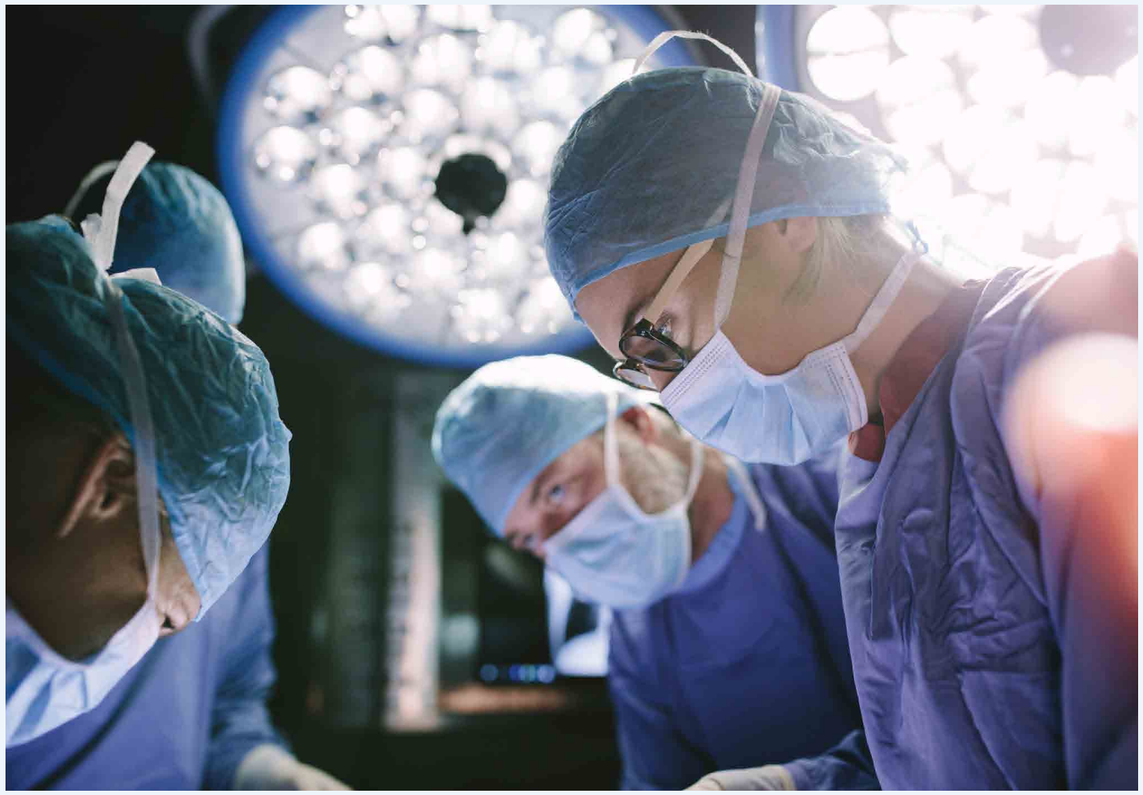
The Life Sciences and Medical industry is one of the most demanding and stringently regulated. Supplying seals into critical devices and equipment means we have to meet the strictest demands in product integrity and meet the highest specifications of hygiene and cleanliness in production conditions.

Extensive product range suitable for all application conditions.

Cleanroom Class 7 (10,000) and Class 8 (100,000) manufacturing, inspection, cleaning and packaging.

Broad material range compliant with FDA, USP Class VI, ISO 10993, UHP, BAM & BfR standards.

Complete seal design service from experienced application engineers.



Life Sciences & Medical applications

Diagnostics

Supporting patients with accurate results for the safe management of health conditions is vital. Diagnostic devices and systems are now developed with accuracy and speed of response to enable targeted analysis and therapy. We support your engineers with efficient design and project management of optimised sealing components for both clinical and patient self diagnosis. Examples include seals for In-vitro devices, analytical laboratory equipment, x-ray, and CT's/MRI's.

Patient Management

Repeatable and reliable control of equipment for patient care is paramount. Typical demands include; optimised working friction and wear life, critical features function & tolerance control and gas, liquid or solid media management at accurate rates.
Our seals are manufactured according to FDA, BfR, BAM, USP Class VI and ISO10993. Examples include seals for ventilators, anaesthesia pumps, respiratory therapy, monitoring equipment, minimally invasive surgery equipment and metered dose aerosols (such as inhalers).

Biotech & Pharmaceutical

With continued development of complex and expensive drugs and research control media, the demand for high performance interactive components within the biotechnology process industry is crucial. We provide support on recommending Ultra High Purity (UHP) compounds for application working extremes combined with sensitive media, and seal design recommendations for dead space and entrapment elimination within applications. Examples include seals for analytical equipment, pumps, valves & actuators, monitoring & control equipment, storage equipment & vessels.

Specialist Materials

Regulatory control	Definition	Nitrile Hydrogenated Nitrile (NBR/HNBR)	Ethylene Propylene (EPDM)	Fluorocarbon (FKM)	Perfluoroelastomers (FFKM)	Silicone (MVQ)	Thermoplastic Elastomers (TPE)	Polyurethane (TPU)	Polytetrafluoret-hylene (TFE/PTFE)	Polyetherether-ketone (PEEK)
		Good mechanical properties and wear resistance. Temp range -40°C to 120°C -35°C to 150°C (HNBR)	Good ozone, water and radiation resistance. Organic and polar solvent resistant. Temp range -50°C to 120°C	Good high temperature & chemical resistance, Suitable for aromatic hydrocarbons, vacuum & ozone. Temp range -25°C to 200°C	Excellent chemical & high temperature resistance. Suitable for steam, low weight vacuum loss. Temp range -10°C to 320°C	Heat age resistant, low temperature, ozone, weather and toxicologically stable. Temp range -50°C to 230°C	Good ozone, weather and mechanical properties, good co-polymerisation. Temp range -40°C to 100°C	Excellent tear and wear resistant properties. Oxygen and ozone resistance. Aliphatic hydrocarbon resistant. Temp range -45° to 120°C	Excellent chemical resistance, low friction and wide temperature range. Creep strength (with fillers). Temp range -269°C to 320°C	Excellent temperature, chemical and pressure resistance. Low friction, dimensional stability. Temp range -120°C to 250°C
USP VI	United States Pharmacopeia		✓	✓	✓	✓	✓	✓	✓	✓
FDA	Food & Drug Administration	✓	✓	✓	✓	✓	✓	✓	✓	✓
UHP	Ultra High Purity			✓	✓	✓		✓		
BAM	German Federal Ins. for Material Research & Testing			✓				✓		
BFR	German Federal Ins. for Risk Assessment		✓			✓				
ISO10993-1	International Standards Organisation		✓	✓		✓	✓			

Our Vision & Values

Our Values = The Ceetak Advantage

Customer Centric

Exceeding customer expectations is at the heart of our business. The Ceetak Advantage is not just a term it is implicit in our business model.

Excellence

Quality culture is embedded within our company enabling highest quality standards across all of our products, engineering, technologies & supply chain solutions.

Enthusiasm

The indisputable passion of our people comes through in everything we do.

Tuned-in

We are constantly researching, monitoring and adapting to meet the demands of ever-changing technologies (and unknowns!) of the future.

Agility

Our ability to move flexibly and quickly whilst maintaining exceptional quality is second to none.

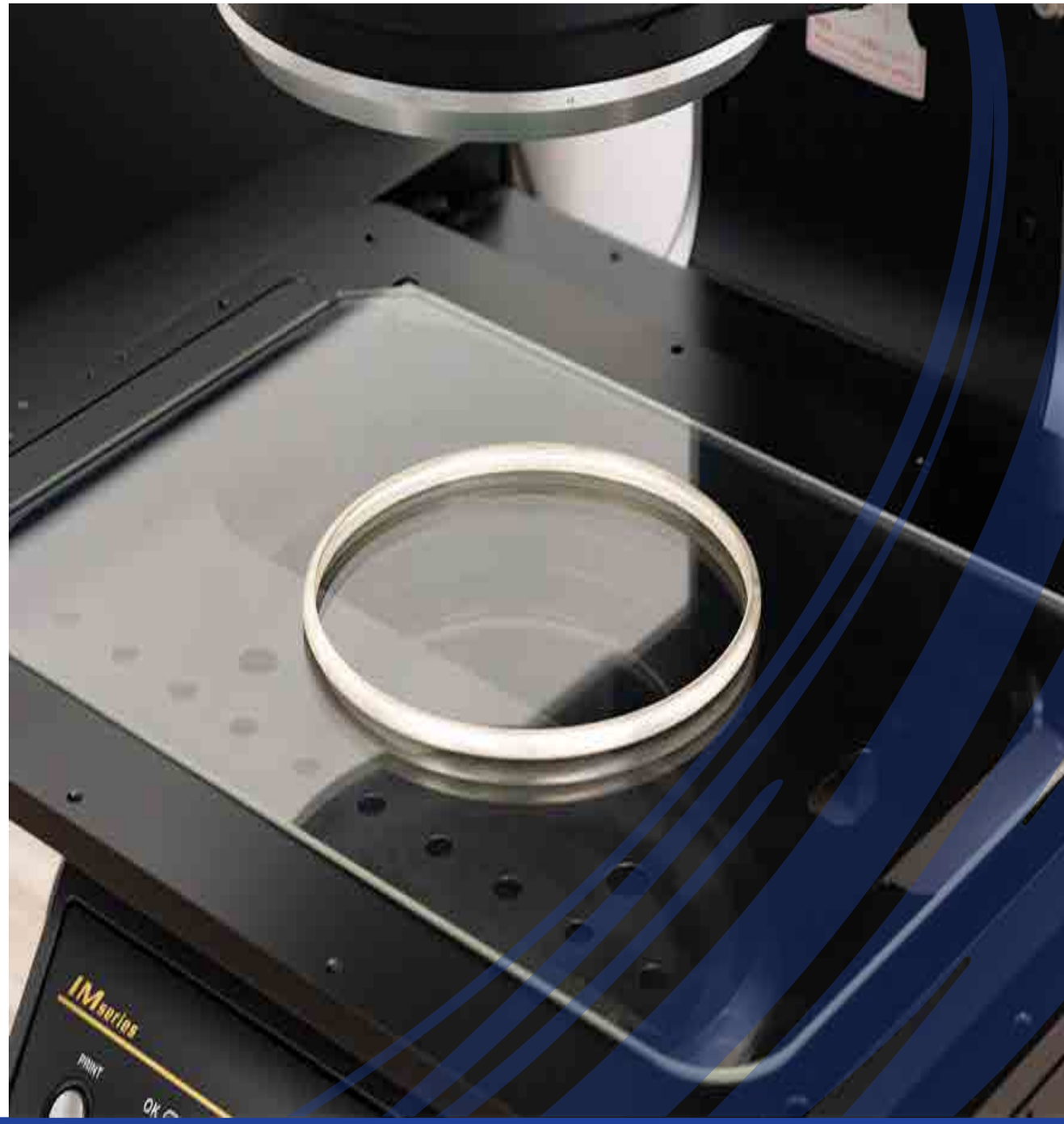
Know-how

Highly regarded technical competence & engineering capability focusing on optimum sealing solutions and bespoke systems across wide-ranging market sectors.

Customers gain real commercial value by working with Ceetak.

It's what we call the 'Ceetak Advantage'. Customers can count on this advantage because it is the set of values that defines our culture.

These values ensure we provide our customers with the very best sealing solutions for technologies of today and for the future.



Design &Development

Unrivalled technical and engineering support means our customers benefit from the best possible seal performance at optimum cost.

- Experienced application engineers support every project from concept to approval
- Complete seal design service
- Seal geometry and profile choice
- Material selection and development
- 3D CAD modelling and FEA Simulation
- 3D printing for concept testing
- Prototyping through to final production
- Online Technical Hub and interactive tools

Quality Assurance

Strict quality procedures at all stages of our design, development and manufacturing processes.

- We are ISO9001:2015, ISO13485:2016 and ISO14001:2015 approved
- Manufacturing approved to IATF16949:2016, AS9100 and ISO13485:2016
- ISO14644 accredited cleanroom production
- Worldwide network of global manufacturing facilities
- Advanced product quality planning
- Proactive and preventative expertise

Cleanroom Capabilities

Production Step	FS209E	ISO14644
	Cleanroom Class	Cleanroom Class
Vulcanisation	100, 000	8
Deflashing	100, 000	8
Washing & Cleaning	10, 000	7
Inspection	10, 000	7
Packaging & special inspection	10, 000	7

We have a complete ISO 13485 accredited cleanroom production process. From material blank production through to inspection and packaging, using controlled materials within state of the art cleanrooms.

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