



CONFORM TO EU REGULATIONS EC1935/2004 & EC2023/2006 | FREE FROM ANIMAL DERIVED INGREDIENTS (ADI-free)

X-Ray & Metal Detectable Elastomers



BARNWELL
THE SEAL OF APPROVAL



Detectaseal® from Barnwell



Metal detectable elastomers for the ultimate in contamination detection and containment



What is Detectaseal®?

The Detectaseal® range of metal detectable and X-ray detectable elastomers has been developed to provide early detection of contamination from elastomer components.

The Detectaseal® range includes FDA-compliant grades of Ethylene Propylene (EPDM), Fluorocarbon (FKM), Nitrile (NBR) and Silicone (VMQ) elastomers. Available in blue and black, Detectaseal® components have been tested and proven in use at leading pharmaceutical and food manufacturing plants. Fragments of Detectaseal® as small as 2mm can be identified by X-ray inspection and metal detection systems and contained by magnetic separators on production lines.

Reduce the risk - Detectaseal® provides additional preventative measures and peace of mind.

Why Detectaseal® from Barnwell?

Barnwell and its supply partners have worked closely with leading industrial organisations to develop a cost effective solution for the detection of rubber contamination. Many processing operations now require HACCP (Hazard Analysis Critical Control Point) programs which stipulate that all parts have to be metal and X-ray detectable.

Rubber contamination may occur due to excessive wear, or damage caused by improper installation, of seals and other components.

Detectaseal® reduces the risk of rubber materials migrating into the finished product and supply chain; thereby reducing product wastage, eliminating costly product recalls, and reducing equipment downtime and maintenance costs.





Why use Detectaseal®?

Using Detectaseal® can potentially save costly product recalls, damage to brand images, reputations and lost sales and profitability.

- ❖ Early detection and containment of contamination
 - Reduced product wastage
 - Increased productivity
- ❖ Compliant with FDA CFR21.177.2600 and USP Class VI
- ❖ Reduce equipment downtime, operating & labor costs
- ❖ Increase customer satisfaction



Detectaseal® Products

Detectaseal® elastomers can be molded into a wide range of shapes, profiles and sizes to suit any application.

Typically, Detectaseal® elastomers are available as O rings, X rings, gaskets, diaphragms, washers, dairy screws, aseptic coupling gaskets and many more profiles, including custom designed components.



Typical Applications

Detectaseal® materials are typically used in wide range of critical sealing applications within the food processing and life-science industries including:-

- ❖ Food manufacturing and processing equipment
- ❖ Pharmaceutical manufacturing equipment
- ❖ Biomedical apparatus

Design service and material testing

With over 40 years of experience in the food and life-science industry, M Barnwell Services Ltd has the technical knowledge and expertise to provide sealing solutions for the most critical and challenging applications. The M Barnwell Services' team work closely with customers, from initial concept through design, testing, commissioning and operation.

Detectaseal® materials

Compound	Material Type	Colour	Hardness IRHD	Temperature Range		FDA	USP
MBMS0546	FKM	Black	74	-10 to 200°C	14 to 392°F	✓	
MBMS0428		Blue	70	-20 to 200°C	-4 to 392°F	✓	
MBMS0519	Nitrile	Black	70	-40 to 120°C	-40 to 248°F	✓	
MBMS0403		Blue	70	-40 to 120°C	-40 to 248°F	✓	
MBMS0449	EPDM	Black	75	-40 to 150°C	-40 to 302°F	✓	
MBMS0427		Blue	70	-40 to 150°C	-40 to 302°F	✓	
MBMS0522	Silicone	Dark Grey	75	-60 to 200°C	-76 to 392°F	✓	✓

✓ METAL DETECTABLE

✓ ADI - FREE

✓ FDA

✓ USP

✓ EC1935/2004

✓ EC2023/2006



FLUID SEALING SPECIALISTS FOR OVER 40 YEARS | £3 MILLION INVENTORY

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