



A range of metal detectable elastomers for the ultimate contamination detection and containment.



Product Overview

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Detectaseal® from PPE

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 EPDM, Nitrile, Fluorocarbon (FKM) and silicone 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 5mm 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 PPE?

PPE has 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.

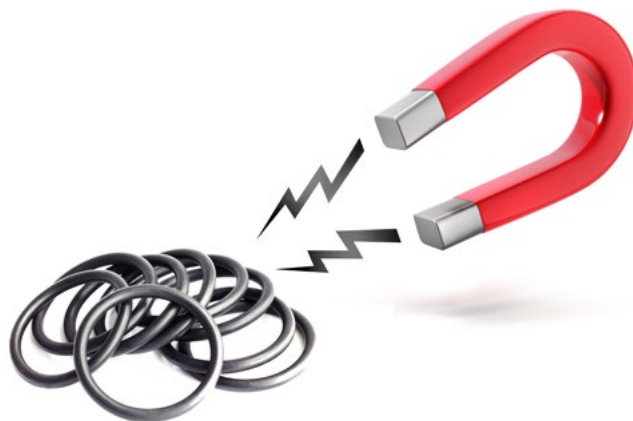
Rubber contamination may occur due to excessive wear, or damage caused by improper installation, of seals and other components.

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.

Design service and material testing

With over 40 years of experience in the food and life-science industry, PPE has the technical knowledge and expertise to provide sealing solutions for the most critical and challenging applications. PPE's team of Application Engineers and Materials Scientists work closely with customers, from initial concept through design, testing, commissioning and operation.

PPE maintains laboratories in the UK and Brenham, Texas for polymer testing, including fluid compatibility, material and seal failure analysis.

Detectaseal® materials:

Compound	Material type	Colour	Hardness IRHD	Temp range		FDA	USP
XV7A	FKM	Blue	70	-20 to 200°C	-4 to 392°F	☑	
XN7H	Nitrile	Black	70	-40 to 120°C	-40 to 248°F	☑	
XN7A		Blue	70	-40 to 120°C	-40 to 248°F	☑	
XE7A	EPDM	Blue	70	-40 to 150°C	-40 to 302°F	☑	
XS7H	Silicone	Dark Grey	75	-60 to 200°C	-76 to 392°F	☑	☑



For more information

For further information on Detectaseal® elastomer materials please visit the PPE website: www.prepol.com/detectaseal

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PERLAST®

The ultimate perfluoroelastomers for sealing applications where chemical resistance and high temperature performance are critical

ENDURA®

The ultimate range of elastomers for sealing applications in the world's most aggressive high pressure applications

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