

### Features of J-Flex Metal Detectable / X-Ray Visible Rubber Materials.

- Minimal downtime due to quick detection of contamination
- Wide range of FDA Compliant Rubber materials.
- Animal Derived Ingredient (A.D.I.) Free.
- Mainly “ food industry” Blue for quick & easy identification.
- Phthalate Free Materials.
- Fragments of J-Flex Metal Detectable / X-Ray Visible materials less than 1mm in size can be identified on in-line detection equipment.



### J-Flex Metal Detectable / X-Ray Visible Products.

‘O’ Rings (standard & non-standard); Gaskets; Sheetings; Extruded Profile; Cords; Bespoke Mouldings; Balls; Bellows; Sealants; , Milk Coupling Seals DIN 11851; Tri-Clover Seals; Seals; Strips; Curtains; Joints; Sight Glass Seals; Bag Filler Seals; Discharge Filler Seals; Sleeves; Bevel Seal Gaskets.  
If you have a component that presents a contamination risk then contact us immediately & eliminate that risk.

**Custom made solutions - made to your drawings; sizes & samples whatever suits you.**

### Material Range.

A wide range of Natural & Synthetic Rubber materials are available including :-

- Silicone Rubber Sheet grade.
- Silicone Sponge.
- Silicone Moulding & Extrusion grade.
- Nitrile ( Buna N )
- E.P.D.M.
- Viton® / FKM
- Natural Rubber
- Polyurethane



Normally supplied in “food industry” Blue colour - but also bespoke colours Green; Red; Yellow etc.



**...Now Available**

## **J-FLEX RUBBER PRODUCTS**

*Engineering Rubber Components & Specialised Sheetting Products*

Units 1 & 2, London Road Business Park, Retford, Notts. England. DN22 6HG.

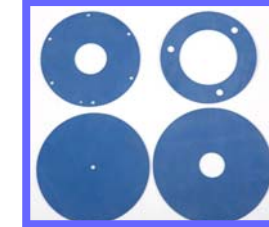
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## **Custom Made Solutions – for Food; Drink; Dairy; Pharma/Bio & Life Science Industries.**

### J-Flex Metal Detectable & X-Ray Visible Food Safe Rubber Materials



### Elastomeric Contamination.

Thousands of gaskets, seals, ‘o’ rings, bellows and sections are used daily in food, drink & pharmaceutical production world-wide. Due to the general low conductivity of traditional rubber based materials, these can very often be missed by even the strongest detection systems.

Increasing legislation demands that food, drinks and pharmaceutical manufacturers keep foreign material (contamination) out of their product to ensure consumer safety. Measures must be in place to detect pollution and contaminated products before they are distributed in the food chain.

Component parts used in process equipment can become damaged either by incorrect installation; excessive wear; aggressive chemical cleaning or completely accidental means, so small fragments can finish up in the ingredients mixture.

So defining the above problem Metal Detectable & X-Ray Visible rubber and plastic are increasing in use in the food & drinks industries. Metallic ferrite powder is mixed into and bound in the molecular structure of a rubber compound. This is then processed like all other compounds by calendaring, extrusion & moulding and of course post curing.

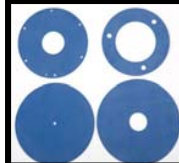
So if a piece of a lid seal gasket broke off in food processing, the food product is scanned as it leaves the production process. This way the piece of rubber contaminating the bread or bag of potato chips would be identified by either x-ray or metal detection.

This way you don't end up with any ‘o’ rings in your potato chips.

Currently all J-Flex Metal Detectable/X-Ray Visible Rubber Products are qualified by independent testing to FDA Title 21 CFR 177.2600 regarding extraction and migration levels for products in repeated contact with food. In addition the metallic ferrite powder is approved on the FDA White list.



**Extruded Profiles**



**Die Cut Gaskets**



**Bellows**



**O-Rings**

**Bevel Seal Gaskets**



**Milk Couplings**

