

## Food & Beverage

### Case Study: Confectionary Processing filter

Industries that serve human consumption, including Food, Beverage, and pharmaceuticals, understand the critical importance of minimizing contamination risks to the lowest possible level.

Silicone Engineering receives inquiries from companies operating in process lead industries seeking assistance in mitigating the potential hazards of rubber sealing particles infiltrating their production lines. The leading causes of such contamination are wear and tear and natural degradation resulting from the prolonged use of the equipment.

### The Opportunity & Challenge

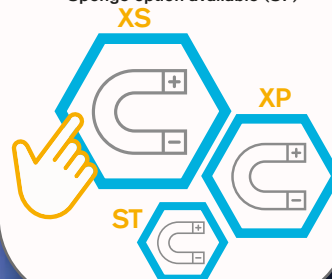
An established food processing manufacturer contacted Silicone Engineering to help update their processing machinery. The company had recently won a new contract to produce a new machine to process and package sweets on behalf of a large confectionery company.

To fulfil the conditions of the new business, the company needed to update its processes to ensure the sweet products were contamination-free and safe to consume.

#### Material Choice

**metectSi**<sup>™</sup>

Our three solid forms of metectSi  
(ST, XP and XS)  
Typically used in seals and gaskets.  
Sponge option available (SP)





## The Solution: **metectSil™ XS60 blue solid sheeting**

The application entailed using solid silicone sheeting as a filtering flab to distribute sweets through the processing machine. Our innovation team suggested using metectSil™ XS per the drawing specifications the company submitted.

With four different variants of the metectSil™ grades available, XS was chosen as it offers the strongest possibility of contamination detection for the magnetic detection systems at the end of the processing line.

The company had been searching for a solution for a while before approaching Silicone Engineering. Time became a pressing issue as they approached their projected manufacturing start time. Our manufacturing, scheduling and dispatch teams were able to process the request very quickly and subsequently arranged delivery before the deadline, much to the customer's delight.

To learn more about the metectSil™ products, please click on the provided link:  
<https://silicone.co.uk/materials/metectsil/>

Additionally, you can click to explore further silicone applications in the Food and Beverage industry here: <https://silicone.co.uk/industries/food-beverage/>

**Food & Beverage**

**Silicone Fliter Sleeve**

Prevents Particulate Contamination

FDA Approved

FDA

The diagram shows a cross-section of a multi-lane processing machine. A blue silicone fliter sleeve is highlighted at the top, filtering material into several lanes. A circular inset on the left shows a close-up of the blue silicone sleeve with colorful particles (sweets) being filtered through it. On the right, two callout boxes highlight the sleeve's benefits: 'Prevents Particulate Contamination' with a crossed-out particle icon, and 'FDA Approved' with the FDA logo.