

# Detectaseal® XV7H

Fluoroelastomer

Precision Polymer Engineering Ltd.

Message:

Detectaseal® is the latest advance in contamination detection and containment. This unique range of metal detectable elastomer compounds has been developed specifically to meet the stringent demands of the pharmaceutical and food processing industries. The Detectaseal® fragments as small as 2-3mm can be easily identified by in-line metal detection equipment used to detect product contaminated by process lines.

The Detectaseal® range includes Nitrile, Silicone, EPDM and Fluoropolymer (FKM) elastomer compounds (all FDA-compliant) available in blue and black, which allows the most appropriate material to be selected for every application.

Detectaseal® compounds can be moulded into O-rings and custom components.

Key Attributes

Early detection and containment of contamination: Reduced product loss, Increased productivity

Blue seals to assist in easy identification

Excellent mechanical properties and sealing efficiency

Exceptional oil and heat resistance

FDA-compliant elastomer materials

Free from animal-derived ingredients

Typical Applications

Static and dynamic sealing applications

Food processing equipment

Pharmaceutical drug manufacturing equipment

Bioscience industry

General Information			
Features	Heat resistance, high		
	Oil resistance		
	Compliance of Food Exposure		
	No kinetic components		
Uses	Non-specific food applications		
	Seals		
	Drug		
Agency Ratings	FDA Food Exposure, Not Rated		
Appearance	Black		
	Blue		

Hardness	Nominal Value		Test Method
IRHD Hardness	74		ASTM D1415, ISO 48

Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	9.00	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	150	%	ASTM D412, ISO 37
Compression Set (200°C, 24 hr)	28	%	ASTM D395, ISO 815

Aging	Nominal Value	Unit	Test Method
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Change in Tensile Strength in Air (250°C, 72 hr)	-30 - 30	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (250°C, 72 hr)	-50 - 50	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (250°C, 72 hr)	15		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	200	°C	
Additional Information			
Minimum Operating Temperature: -10°C (+14°F)			

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

