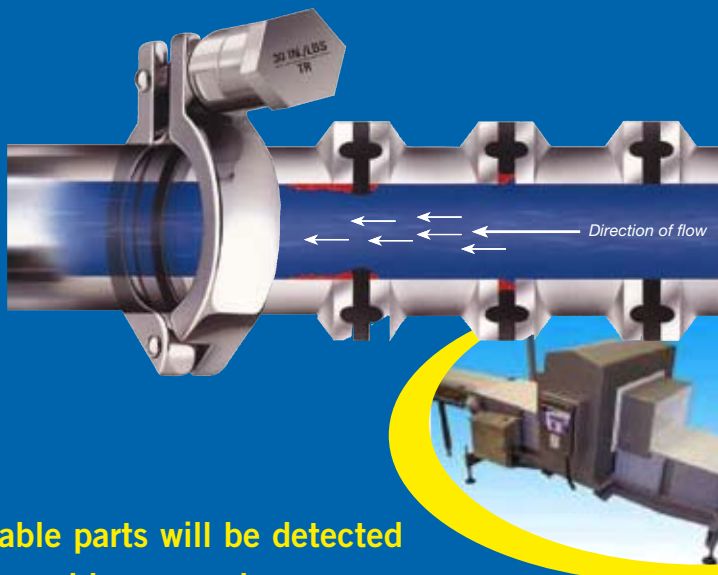
THE SEALING INNOVATION TIMES

METAL DETECTABLE ELASTOMERS AND PLASTICS

- ELIMINATE PRODUCT RECALL
- LOWER PRODUCT LOSS
- DECREASE THE RISK OF POLYMERS IN A FINISHED PRODUCT
- LESS MAINTENANCE
- FDA and 3A Class 1 CONFORM

Our MDT(Material Development Team) developed different worldclass compounds of metal detectable products as well in elastomers as in plastics. These products are widely used in food, beverage, pharma and dairy industries. Most products are FDA, 3A (class 1) or USP conform.



Components manufactured out of metal detectable parts will be detected and rejected by an inline metal detector or removed by a mag bar.

know-how makes the difference

ERIKS

METAL DETECTABLE

Product lines:

- **O-RINGS:**

  See data sheets enclosed.

  FDA and 3A class 1 conform.

- **MOULDED PARTS:**

  See data sheets enclosed.

  FDA and 3A class 1 conform.

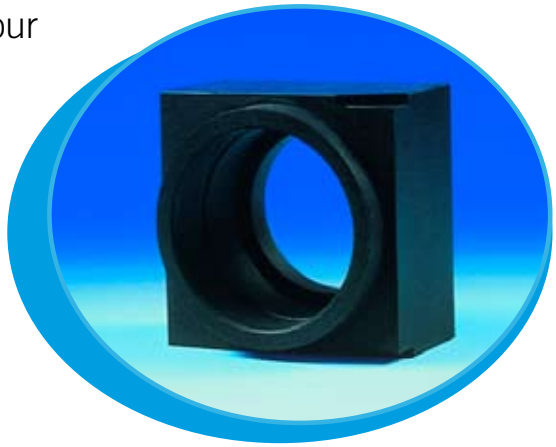
- **TRI-CLOVER® GASKETS:**

  FDA and USP conform.

- **PLASTICS:**

  We machine parts out of our grey POM MD compound to your drawings.

  FDA conform.



NBR 60-compound 366312 blue - Technical Data Sheet

1. Introduction

NBR 366312-compound has excellent resistance to vegetable and animal oils. FDA compliant to CFR 21 177-2600. This compound can be detected by metal detectors.

2. Product Description

Chemical Composition :		NBR Acrylonitrile-butadiene rubber with 33% ACN content. Cure system is Sulphur
Physical form	:	Mouldings / O-rings
Colour	:	Blue

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	*Norm*	*Test Values*
Speciific Weight	ISO 2781	1,47
Hardness	ISO 868	60 Shore A
Elongation	ISO 37	554 %
Tensile Strength	ISO 37	6,3 Psi
Compression Set 22h/70°C on slab	ISO 815	17,4 %
Heat Ageing 70h/100°C	ISO 188	
Hardness change		+11 Shore A
Elongation change		-496 %
Tensile strength change		0,0 Psi
Weight loss		0,3%
Fluid Immersion ASTM 3, 70h/100°C	ISO 1817	
Volume change		+16,0 %
Hardness change		-11 Shore A
Elongation change		-137 %
Tensile Strength change		-1,4 Psi

4. Temperature Resistance

- -30° to +120°C

5. Advantages

- Metal detectable

EPDM 65-compound 559311 blue - Technical Data Sheet

1. Introduction

EPDM 559311-compound has exceptional resistance to hot water/steam and acids. FDA compliant to CFR 21 177-2600 and 3A 18-03 compliant to class 3 (except for milk fat test).
This compound can be detected by metal detectors.

2. Product Description

Chemical Composition	:	Polymer of Ethylene, Propylene + small amount of Diene Peroxide cured
Physical form	:	Mouldings / O-rings
Colour	:	Blue

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	*Norm*	*Test Values*
Speciific Weight	ISO 2781	1,61
Hardness	ISO 868	67 Shore A
Elongation	ISO 37	285 %
Tensile Strength	ISO 37	7,4 Psi
Compression Set 24h/100°C on slab	ISO 815	15,1 %
Heat Ageing 70h/100°C	ISO 188	
Hardness change		+2 Shore A
Elongation change		-14 %
Tensile strength change		-0,7 Psi
Weight loss		0,2%
Fluid Immersion ASTM 3, 70h/150°C	ISO 1817	
Volume change		+136,0 %
Hardness change		-39 Shore A
Elongation change		-155 %
Tensile Strength change		-3,8 Psi

4. Temperature Resistance

- -40° to +140°C

5. Advantages

- Metal detectable

FKM 70-compound 514328 blue - Technical Data Sheet

1. Introduction

FKM 514327-compound has excellent resistance to vegetable and animal oils.
FDA compliant to CFR 21 177-2600 and 3A 18-03 compliant to class1.
This compound can be detected by metal detectors.

2. Product Description

Chemical Composition	:	Copolymer with 66% fluorine content. Cure system: Bisphenol
Physical form	:	O-Rings / Mouldings
Colour	:	Blue

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	*Norm*	*Test Values*
Speciific Weight	ISO 2781	2,25
Hardness	ISO 868	70 ± 5 Shore A
Elongation	ISO 37	237 %
Tensile Strength	ISO 37	12,0 Psi
Compression Set 22h/175°C on slab	ISO 815	7,7 %
Heat Ageing 70h/250°C	ISO 188	
Hardness change		+5 Shore A
Elongation change		-55 %
Tensile strength change		+0,2 Psi
Weight loss		2,5 %
Fluid Immersion ASTM 3, 70h/150°C	ISO 1817	
Volume change		+2,5 %
Hardness change		0 Shore A
Elongation change		+23 %
Tensile Strength change		-1,3 Psi

4. Temperature Resistance

- -15° to +204°C
- TR10 (low temp. resistance): -12°C

5. Advantages

- Good compression-set
- Metal detectable

Silicone 70-compound 714330 blue - Technical Data Sheet

1. Introduction

Silicone 714330-compound has excellent thermal resistance to both high and low temperatures. It is good with oxygen and ozone attack. FDA compliant to CFR 21 177-2600 and 3A 18-03 compliant to class1. This compound can be detected by metal detectors.

2. Product Description

Chemical Composition	:	Silicone
Physical form	:	Extruded O-Rings / Mouldings / Vulc-O-rings
Colour	:	Blue

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	*Norm*	*Test Values*
Speciific Weight	ISO 2719	1,33
Hardness	ISO 868	69 Shore A
Elongation	ISO 37	167 %
Tensile Strength	ISO 37	4,7 Psi
Compression Set 22h/175°C on slab	ISO 815	14,8 %
Heat Ageing 70h/225°C	ISO 188	
Hardness change		-2 Shore A
Elongation change		-18 %
Tensile strength change		-0,3 Psi
Weight loss		1,6%
Fluid Immersion ASTM 3, 70h/150°C	ISO 1817	
Volume change		+37,0 %
Hardness change		-13 Shore A
Elongation change		-20 %
Tensile Strength change		-1,1 Psi

4. Temperature Resistance

- -60° to +220°C

5. Advantages

- Metal detectable