

# **EZTRA**<sup>®</sup>

Endless O-Rings Perfluoroelastomers

**EZTRA**<sup>®</sup> products offer unrivalled strength characteristics .

Whether it's chemical aggression or extremely high temperatures, they offer very high standards that cannot be reached by ordinary elastomers. This translates into a higher level of plant and process safety by significantly reducing the risk of contamination, breakdowns and interruptions.

The cost-efficiency ratio of the O-Ring is dramatically reduced with **EZTRA**<sup>®</sup>, allowing you to drastically cut down on plant downtime and costs while ensuring high-efficiency values.

When the intrinsic characteristics of perfluoroelastomers are also required to comply with medical and food standards, the **EZTRA**<sup>®</sup> FB+M family is the ideal choice.

The food approvals and the possible black and white colours obtained on the materials allow safe use in the food & beverage industry as well as in the medical/ pharmaceutical field.

**EZTRA**<sup>®</sup> **003** is an universal FFKM that best reconciles high-temperature resistance and performance in chemically aggressive environments. Certified according to FDA cfr.21, 3-A and USP Class VI.

**EZTRA**<sup>®</sup> **003**  
O-Rings

**General Application****Temperature Range**From **-20°C**To **275°C****Color**

Black

**Curing**

Peroxide

**Application Target**

Food% Beverage + Medical

**Compliances**

FDA

3A – Sanitary

USP Class VI

**PHYSICAL AND MECHANICAL PROPERTIES**

<b>Property</b>	<b>Test STD</b>	<b>Unit</b>	<b>Value</b>
<i>Density</i>	ISO 2781	g/cm <sup>3</sup>	2,14 ± 0,03
<i>Hardness</i>	D2240	ShA	75 ± 5
<i>Tensile Strength</i>	D1414	N/m m <sup>2</sup>	>18
<i>Elongation</i>	D1414	%	>160
<i>TR 10</i>	ASTM D1329	°C	<-1
<i>Brittle Point</i>	ISO 974	°C	<-5
<i>C. Set 70h @200°C</i>	ISO 815	%	<23
<i>C. Set 70h @275°C</i>	ISO 815	%	<28

**Note**


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**CHEMICAL RESISTANCE OVERVIEW**

<b>RATING SYSTEM</b>	<b>A1: &lt;10% SWELLING A2: &lt;25% SWELLING A3: &lt;35% SWELLING</b>
<i>Aldehydes</i>	A1
<i>Alcohols</i>	A1
<i>Alkalis</i>	A1
<i>Amines (RT)</i>	A1
<i>Esters</i>	A1
<i>Ethers</i>	A1
<i>Flourinated fluids</i>	A2
<i>Hot Amines</i>	A2
<i>Hydrocarbons</i>	A1
<i>Inorganic Acids</i>	A1
<i>Ketones</i>	A1
<i>Lubricants</i>	A1
<i>Organic Acids</i>	A1
<i>Sour gas</i>	A1
<i>Water/Steam</i>	A1

**Disclaimer**

Tests performed on test slabs.  
Temperatures, applications and indications are meant as basic suggestions and valid for static applications with no other specific media and or conditions.

## AGEING PROPERTIES

<b>Steam 168h 200°C</b>  <b>TEST STD</b> <b>ISO 1817</b>	Property	Unit	Value
	Hardness Change	ShA	-6.5
	Tensile Strength	%	-11.0
	Elongation	%	+11.0
	Volume	%	+5.0
	Weight	%	+2.6

<b>Heat Ageing 70h</b> <b>250°C</b>  <b>TEST STD</b> <b>ISO 188</b>	Property	Unit	Value
	Hardness Change	ShA	+1.5
	Tensile Strength	%	+3.7
	Elongation	%	+6.0
	Volume	%	
	Weight	%	

<b>Acetone 24h 125°C</b>  <b>TEST STD</b> <b>ISO 1817</b>	Property	Unit	Value
	Hardness Change	ShA	+0.5
	Tensile Strength	%	-5.0
	Elongation	%	-1.5
	Volume	%	-0.2
	Weight	%	-0.1

<b>Water 168h 200°C</b>  <b>TEST STD</b> <b>ISO 188</b>	Property	Unit	Value
	Hardness Change	ShA	-9.0
	Tensile Strength	%	+6.5
	Elongation	%	+11.5
	Volume	%	+8.7
	Weight	%	+4.4