

EZTRA[®]

Endless O-Rings Perfluoroelastomers

EZTRA[®] 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**[®], 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**[®] 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[®] **003** is an universal FFKM that best reconciles high-temperature resistance and performance in chemically aggressive environments. Certified according to FDA cfr.21 and 3-A.

EZTRA[®] **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

PHYSICAL AND MECHANICAL PROPERTIES

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

Note

CHEMICAL RESISTANCE OVERVIEW

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

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

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

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

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