

EZTRA[®]

Endless O-Rings Perfluoroelastomers

FFKM at its biggest.



Talking about FFKM or perfluoroelastomers is nothing new.

Since the days of rubber, the world of elastomers has been constantly evolving and changing, keeping pace with the rapid development of new technologies and fields of application, in order to respond as quickly as possible to the increasingly special and specific demands for resistance and durability of sealing products.

Standard items and materials will continue to exist, to be important and of great use. The challenge of the future, however, is to create products that always go beyond the normal, in order to be able to offer yesterday's and tomorrow's future the best and most optimal technical solutions to the demands for higher, more efficient and longer-lasting performance.

EZTRA® perfluoroelastomers processed through the CO.SM.O. (Compression Step Moulding for O-Rings) system by ORINGONE aim to meet this challenge.

Process and product exclusivity.

The uniqueness of the production process and the extraordinary characteristics of the materials make **EZTRA**® the only programme that allows you to have O-Rings without limits in terms of size, performance and accessibility.

No mould making costs for any size of OR, no minimum purchase quantity, no performance constraints.

All this is produced to the highest quality standards, with more than 13 quality checks on the production line of each individual part, with dimensional and surface tolerances according to ISO 3601-1 and ISO 3601-3, in a production environment certified according to ISO 9001:2015, ISO 14001:2015, ISO 50001:2018 and ISO 45001:2018.

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.

This has an impact on the durability of the products and the environments in which they are installed. 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.

Choosing **EZTRA**® for severe and borderline sealing conditions for common fluoroelastomers means choosing the future, maximum efficiency and safety.

Choosing **EZTRA**® means being able to benefit from all the advantages of the CO.SM.O. production system, also for the production of CORDONE, our calibrated compression moulded cord that guarantees the same physical, mechanical and dimensional precision characteristics of the O-Rings; there are no minimum length limits so that you can have an **EZTRA**® product even in the most difficult maintenance operations where it is not possible to install a new O-Ring.

Choosing **EZTRA**® means having the possibility to configure a non-standard O-Ring without design limits in our online shop, getting immediate prices and availability, being able to choose between standard production and fast delivery with the XPRESS service.



EZTRA® products share the highest performance characteristics but differ from each other in the specific purposes for which they were developed.

HT

Very High Temperatures

CH

Chemical Aggression

LT

Low Temperatures

FB+M

Food Beverage and Medical

EZTRA[®] **HT**

Target: Very High-Temperature Resistance

The **EZTRA[®]** products in this family are developed and manufactured to maintain their physical and mechanical properties for long periods at temperatures above 300°C with peaks of up to 330°C.

EZTRA[®]001

Triazinic with excellent performance and compression set at temperatures up to 300°C.

EZTRA[®]002

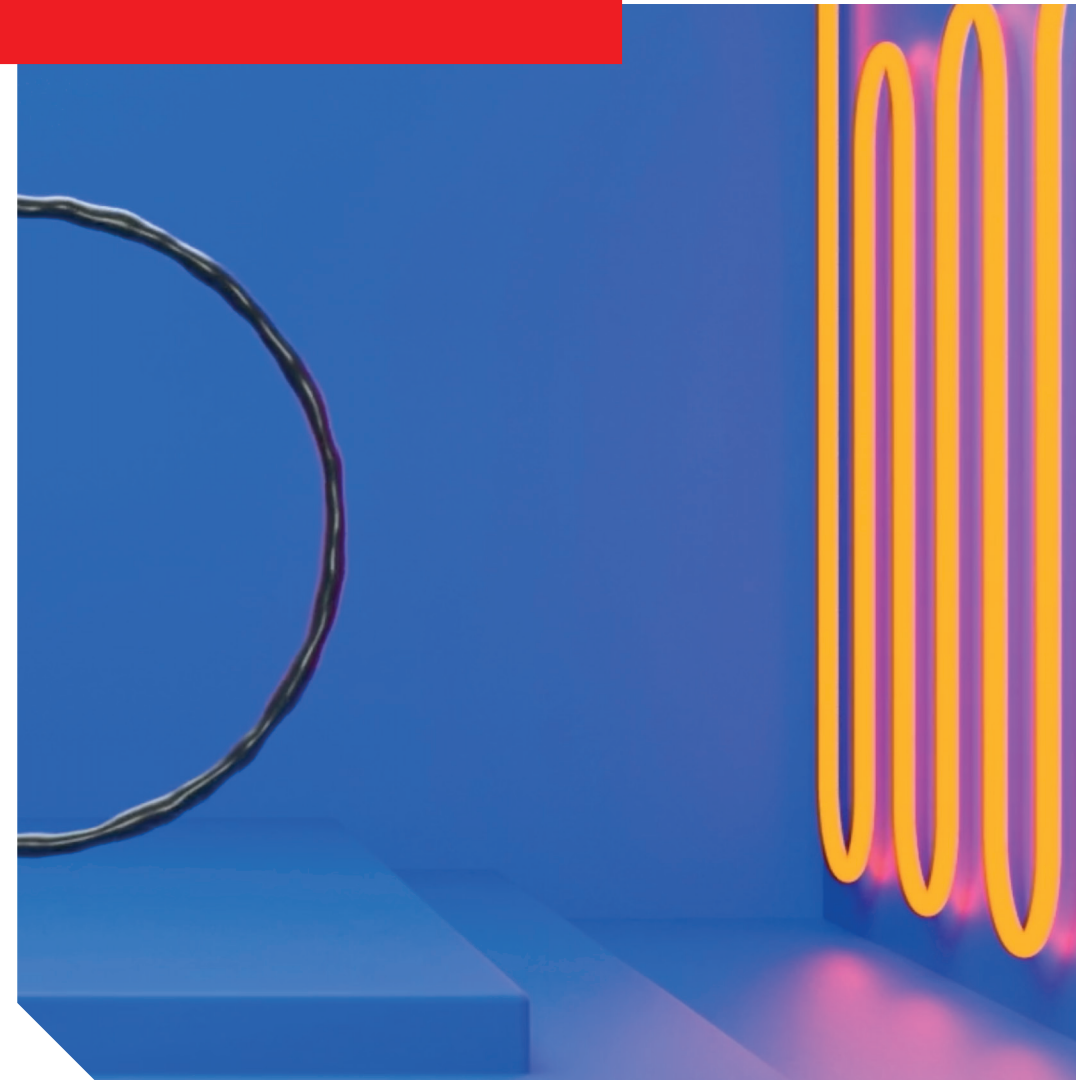
Peroxide with excellent temperature resistance performance up to 330°C.

EZTRA[®]007

Triazinic with improved compression set up to 320°C.

EZTRA[®]011

Peroxide performing at high pressures up to 300°C.



EZTRA **CH**

Target: Chemical Aggression Resistance

Products made from **EZTRA**® materials in this category are the most resistant to degradation of manufactured goods due to chemical and physical aggression.

This ability to resist attack by chemicals and solvents results in a lower risk of swelling and cracking of the O-Rings.

With a wide range of fluid compatibility, the **EZTRA**® products in this family can be considered an excellent solution for many cases.

EZTRA® 005

Peroxide with excellent resistance to a wide range of chemicals.

EZTRA® 012

Specific peroxide for Oil & Gas applications.



EZTRA[®] **LT**

Target: Low-Temperature Resistance

EZTRA[®] Low Temp products extend the existing ability to resist chemical aggression down to temperatures of 30°C below zero.

EZTRA[®] 006

Peroxide for chemically aggressive cold environments.

EZTRA[®] 013

Peroxide for cold environments with chemical aggression and high pressures



EZTRA® **FB+M**

Target: Food&Beverage + Medical

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

Universally applicable peroxide for high temperature and chemical resistance with FDA and 3-A approval.

EZTRA® 022

White peroxide for high temperatures with FDA approval.

EZTRA® 023

White peroxide for chemically aggressive environments with FDA approval.



EZTRA® Materials List [1/2]

[Feb 2021]

	COLOUR	HARDNESS	T min	T max	Target	
EZTRA® 001	black	75 ShA	-10°C	300°C	HT	Vulcanisation: Triazinic. Improved performance and compression set at temperatures up to 300°C. Not compatible with water, vapour and amine applications at high temperatures.
EZTRA® 002	black	75 ShA	-5°C	320°C	HT	Vulcanisation: Peroxide. Excellent temperature resistance performance up to 325°C. Good general chemical resistance.
EZTRA® 003	black	75 ShA	-10°C	275°C	FB+M	Vulcanisation: Peroxide. Universal FFKM that best reconciles high-temperature resistance and performance in chemically aggressive environments. Certified according to FDA cfr.21 and USP class VI
EZTRA® 005	black	75 ShA	-10°C	230°C	CH	Vulcanisation: Peroxide. Excellent chemical resistance performance. Excellent compression set up to 230°C.
EZTRA® 006	black	75 ShA	-30°C	220°C	LT	Vulcanisation: Peroxide. Specific for low-temperature applications down to -30°C. Combines an extended temperature range with excellent chemical resistance.
EZTRA® 007	black	80 ShA	-5°C	320°C	HT	Vulcanisation: Triazinic. Excellent resistance to very high temperatures. Good chemical resistance, except for amines and high-temperature water and steam environments.

EZTRA® Materials List [2/2]

[Feb 2021]

	COLOUR	HARDNESS	T min	T max	Target	
EZTRA® 011	black	90 ShA	-10°C	300°C	HT	Vulcanisation: Peroxide. Excellent resistance to high temperatures together with good general chemical resistance. Excellent performance in high-pressure conditions.
EZTRA® 012	black	90 ShA	-5°C	260°C	CH	Vulcanisation: Peroxide. FFKM specific for Anti Explosive Decompression applications, certified according to Norsok M-710, NACE and API 6A. Excellent chemical and high-temperature resistance (up to 260°C).
EZTRA® 013	black	90 ShA	-30°C	220°C	LT	Vulcanisation: Peroxide. FFKM special for applications where very good chemical resistance at low temperatures (down to -30°C) and high-pressure values are required.
EZTRA® 022	white	75 ShA	-10°C	275°C	FB+M	Vulcanisation: Peroxide. White FFKM for food applications with excellent resistance to high temperatures. FDA compliance.
EZTRA® 023	white	75 ShA	-15°C	230°C	FB+M	Vulcanisation: Peroxide. Specific material for food, medical and pharmaceutical applications with excellent chemical resistance. FDA compliance.