



# EZTRA®

# Z012

## FFKM EZTRA® 90 Black ED

### CHEMICAL AGGRESSION RESISTANCE WITH OUTSTANDING RGD RESISTANCE

**EZTRA®012 can provide un matched strength characteristics.** The chemical aggression resistance series offers the highest level of protection against O-Ring degradation due to chemical and physical factors, so, the best performance in chemically aggressive environments.

**It is suitable for the most static applications in maximum temperature ranging from -15°C to 260°C,** offering outstanding resistance to oilfield environments in downhole and surface equipment. Understanding the demanding challenges in the oil and gas exploration and extraction industry.

## PLUS

FROM **EZTRA** SMALL TO **EZTRA** LARGE  
O-Rings Diameter from 1.00 mm to infinity... AND NOT ONLY

**Material can offer an excellent Anti Explosive Decompression (AED) behavior coupled obviously with well-known definition of Rapid Gas Decompression (RGD):** phenomenon that often occurs when high pressure gas molecules migrate into an elastomer at a compressed state. Most of elastomers experience severe blistering or cracking when the forces of the these expanding gases overcome the strength of the surrounding materiel. **EZTRA®012.** Can avoid this phenomena!

### CERTIFICATIONS

|              |        |                                      |
|--------------|--------|--------------------------------------|
| NORSOK M-710 | API 6A | NACE TM0187<br>Sour gas environments |
|--------------|--------|--------------------------------------|

### APPLICATIONS

|                |             |       |
|----------------|-------------|-------|
| DRILLING TOOLS | COMPRESSORS | PUMPS |
| WIRELINE TOOLS | VALVES      |       |

### GENERAL CHARACTERISTICS

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| General applications: | All Chemicals                                        |
| Colour:               | Black                                                |
| Temperature Range:    | From -10°C to +250°C<br>From -15°C to +260°C (peaks) |

### PHISICAL AND MECHANICAL PROPRIETIES

|                  |                    |                   |             |
|------------------|--------------------|-------------------|-------------|
| Density          | DIN EN ISO 1181-1A | g/cm <sup>3</sup> | 1.95 ± 0.03 |
| Hardness         | DIN EN ISO 868     | m-IRHD            | 90 ± 5      |
| Tensile Strength | DIN 53504 S2       | MPa               | >14         |
| Elongation       | DIN 53504 S2       | %                 | >140        |

### LOW TEMPERATURE RESISTANCE

|      |            |    |     |
|------|------------|----|-----|
| TRIO | ASTM D1329 | °C | <-4 |
|------|------------|----|-----|

### PRODUCTS

|         |      |
|---------|------|
| O-RINGS | CORD |
|---------|------|

### TECHNICAL PARTS

### CHEMICAL RESISTANCE

|                   |    |
|-------------------|----|
| Aldehydes         | A1 |
| Alcohols          | A1 |
| Alkalis           | A1 |
| Amines (RT)       | A1 |
| Esters            | A1 |
| Ethers            | A1 |
| Hot Amines        | A2 |
| Hydrocarbons      | A1 |
| Inorganic Acids   | A1 |
| Ketones           | A1 |
| Organic Acids     | A1 |
| Strong Oxidezers  | A1 |
| Sour Gas          | A1 |
| Water/Steam       | A1 |
| Florinated Fluids | A3 |

### COMPRESSION SET TESTS

|           |           |      |
|-----------|-----------|------|
| 48h@200°C | ISO 815-1 | <25% |
| 72h@200°C | ISO 815-1 | <30% |

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