

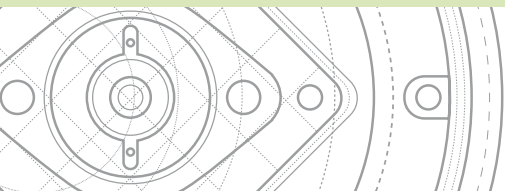
ELASTOMER SEAL



LATTY- E 48Z11 LY 1700

**ELASTOMER SEAL BASED ON EPDM
QUALIFIED FOR IRRADIATIONS UP TO 1700 KGy
ACCORDING TO EDF SPECIFICATION**





LATTY-E 48Z11 LY 1700

ELASTOMER SEAL

The different forms of EPDM-based elastomer seals are radiation resistant. These seals have been developed for nuclear applications and are approved for irradiations use up to 1700 KGy. They are suitable for dynamic or static sealing.

Characteristics

- ▶ The elastomer seal E48Z11LY1700 meets the chemical specifications of PMUC (products and materials usable in nuclear power stations) with values of halogen and sulphur content below 200 ppm (according to GDL procedure D5710/ESD/1990/000295/001)

Advantages

- ▶ High resistance for irradiations. Qualification carried out with gamma rays dose up to 1700 KGy
- ▶ Good resistance to weathering, nitrogen, oxygen, hydraulic fluids of phosphate ester-type, polar solvents (water, alcohols, glycols, ketones), steam, detergents.

Operating temperatures

- ▶ From -40°C to 100°C in air (extended operating period) in dynamic application and approx. -65°C in static application
- ▶ From -40°C to 150°C in air (limited operating period) in dynamic application and approx. -65°C in static application
- ▶ From -40°C to 140°C in water (extended operating period)
- ▶ From -40°C to 170°C in water or steam (operating period)

Mechanical properties

- | | |
|---------------------------------------|------------|
| ▶ Hardness (nominal) | 80 Shore A |
| ▶ Tensile strength | 12 MPa |
| ▶ Elongation at break | 200% |
| ▶ Tear strength | 33 KN/m |
| ▶ Residual deformation (70h at 100°C) | 15% |

Approval

- ▶ PMUC (n° 17-0389)



Industries

- ▶ Nuclear energy
- ▶ Nuclear fuel processing
- ▶ Nuclear waste processing
- ▶ Medical environment

Equipments

- ▶ Rotary units
- ▶ Valves and fittings
- ▶ Bolted assemblies
- ▶ Pressure equipment
- ▶ Instrumentation
- ▶ Irradiation-exposed equipment

Seal types or forms available

- ▶ Semi-dynamic O-rings
- ▶ Static O-rings
- ▶ Gaskets
- ▶ Compressed and machined gaskets
- ▶ Gasket material
- ▶ Bellows
- ▶ Lip seal
- ▶ Other forms on request

Dimensions

- ▶ Dimensions of gasket material:
500 x 500 mm - thickness 1mm, 1,5mm, 2mm or 3mm
800 x 800 mm - thickness 2mm or 3mm



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