

**Two Fluorten materials are compliant with EN ISO 23936-1 (NFE QATARGAS - MCDERMOTT)  
for thermoplastics.**

The main testing requirements are from QATARGAS and are based on the new **ISO 23936-1:2023 (Oil and gas industries including lower carbon energy — Non-metallic materials in contact with media related to oil and gas production — Part 1: Thermoplastic)**.

The EN ISO 23936 standard establishes requirements and guidelines for the quality control and qualification of seals made of non-metallic materials. The components in question are, in fact, used in various equipment employed in highly critical Oil & Gas sector, where higher standards must be a warranty to prevent damages of any type.

As established by the EN ISO 23936 standards, quality control tests are therefore necessary, such as: density, hardness, tensile strength, and elongation tests, as well as complex procedures to verify chemical resistance.

These tests are necessary for the qualification of thermoplastic materials which, during application, are exposed to fluids with high temperatures and pressures for a long period of time.

*This is part of the NFE (North Field Expansion) project, owned by QATARGAS in the hands of MCDERMOTT.*

