

Saltel-Industries was created in 2004 to develop and market **innovative solutions for oilfield applications.**

The first products were a range of high pressure inflatable packers for well testing. Using innovative design and materials the company rapidly obtained **remarkable levels of performance** in terms of packer expansion, temperature rating and pressure resistance.

Many hundreds of these packers are now in service around the world, their reliability and effectiveness have secured Saltel-Industries's reputation as a high quality cost effective supplier of innovative technical products and services to the oil industry.

The company headquarters in France has fully integrated research, development, and manufacturing capacity.



Innovation and the creative use of technology is the key to the company's success

Over 15% of turnover is reinvested in research and development every year. Eight mechanical and materials engineers/doctorates, with the latest research, development, and testing equipment work full time to bring out new products, applications, and services, qualified in-house for field use.

The company presently holds 10 international patents protecting different areas of the company's technology.

INNOVATIVE OILFIELDS SOLUTIONS



Fully Integrated Manufacturing

Totally integrated quality control and traceability is applied throughout, from marketing and the identification of client requirements, through conception, design, development, and qualification. The in-house manufacturing capacity, including integrated CAD between R&D and production, autoclaves for vulcanization of elastomeric products up to 20 ft/6 m in length (30 inches/75 cm in diameter), and computerized machining of both steel and elastomers, helps to shorten development time, optimize quality control, reduces dependence on sub-contractors and allows excellent reactivity.



Fully integrated open floor manufacturing at company headquarters near Rennes, France.



The test facilities

The test facilities at company headquarters in Brittany, France, are adapted for full qualification of tools and products in a harsh oilfield environment, with the highest possible safety standards.

Facilities include:

- Equipment and facilities for gas testing up to 6,000 psi / 400 bar and hydraulic testing up to 30,000 psi / 2,000 bar.
- A 46 ft / 14 m long armored test laboratory with external remote control and visualization.
- An elastomer laboratory for developing, mixing, and testing new compounds.
- A dummy well, 20 ft / 6 meters in depth, inside diameter 13.75 in / 350 mm, fully instrumented for testing in simulated downhole conditions with gas or water at pressures up to 5,000 psi / 350 bar and at temperatures of up to 428° F / 220° C.

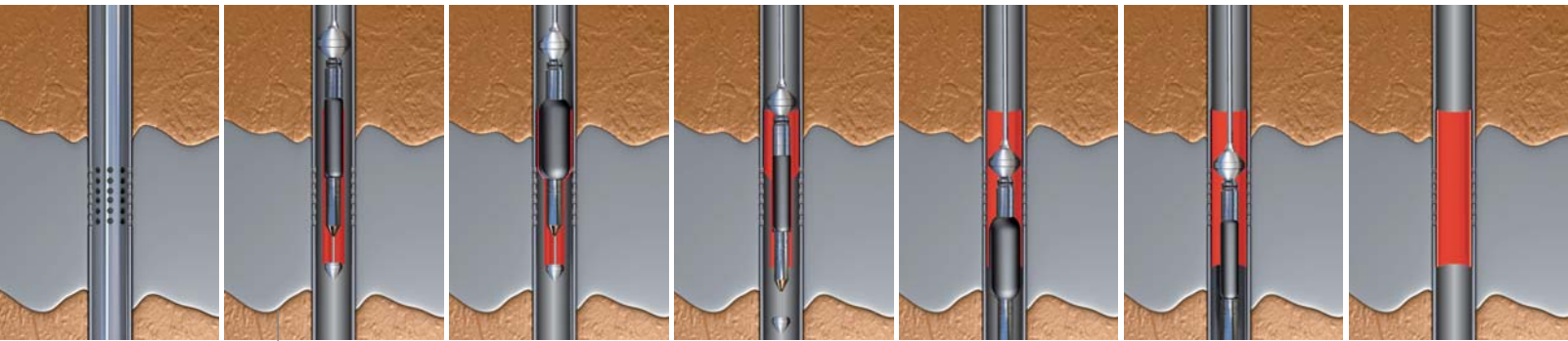




Inflatable Packer Expandable Technology

The high pressure rating, high expansion ratio, and remarkable reliability of Saltel-Industries inflatable packers enable their use for in-situ expansion of short lengths of carbon steel or stainless steel tubulars. This opens up a wide range of potential applications with many advantages over traditional solutions, such as:

- A large clearance while running in hole
- A high pressure rating with a large through diameter
- The capacity to seal in irregular or ovalised openhole or casing
- Any expandable will fit a wide range of different sizes.



Using an Expandable Steel Patch to seal unwanted perforations.



Applications of Inflatable Packer Expandable Technology

Inflatable packer expandable technology can be used at different stages in the lifecycle of a well,

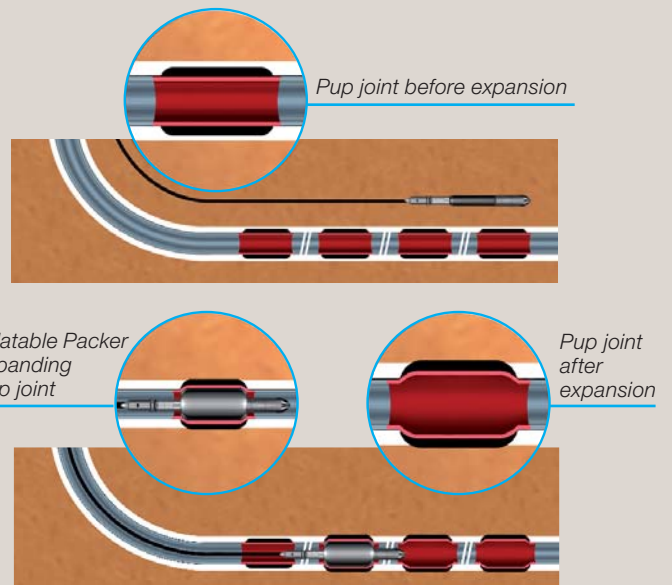
During drilling, for shutting-off total losses zones while drilling, or sealing the top of a scab liner into open-hole (See technical sheet “Customized Applications”)

During completion, for sealing the annulus between completion and open hole for zonal isolation (as a replacement for external casing packers or swellable packers). Run as part of the completion an elastomer coated expandable pup joint in expanded to create a high pressure corrosion resistant barrier in the annulus in as many intervals as required.

During Production, for:

- Perforation shut-off, to reduce water / gas production, or modify injection profiles (See technical sheet “Patch specifications”).
- Setting in open-hole or in variable ID's, for customized applications such as repairing leaking sliding sleeves, hanging off sandscreens. (See technical sheet “Customized Applications”).
- Repairing damaged or corroded casings or tubing, with a relatively thin but high pressure inner lining (See technical sheet “Patch specifications”).

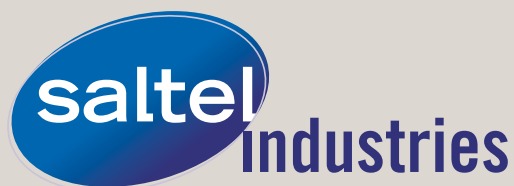
Multiple zonal isolation in open hole



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Saltel-Industries excellent test facilities, the focus on research and development, and the fully integrated manufacturing enable the quick and efficient delivery of innovative technical solution to solve clients needs.



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