



SINTERPORE® Artificial Lift Pump Guard

Artificial Lift Pumps and Solids Production

Artificial lift systems are crucial for the production of oil and gas where the natural pressure in the reservoir isn't sufficient for the well to flow naturally. These systems are designed to enhance the flow of fluids, enabling efficient extraction from wells. However, the presence of solids—such as sand, silt, proppant and other particulates—can significantly impact the performance and longevity of artificial lift pumps.

Whether it's a Rod Pump, Electrical Submersible Pump (ESP) or Progressive Cavity Pump (PCP), abrasive solids cause excessive wear and tear leading to increased maintenance and reduced pump life impacting return on investment.

There are various solids management strategies to extend pump life in solids producing wells but ultimately, the best solution is to keep solids away from the pump.



PMF's **SINTERPORE®** Artificial Lift Pump Guard provides a filter to prevent the ingress of solids and hence extend the useful life of the pump resulting in significant savings due to less change-outs and less production downtime. It is easily installed and can be custom-designed to meet the challenges of the well.

The design shown here incorporates a threaded, perforated core for mechanical strength with a multi-layer diffusion bonded (sintered) laminate tightly wrapped around the core and welded resulting in a robust filtration solution to stop solids.



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