

OIL-FILLED VS WATER-FILLED SUBMERSIBLE PUMP

A COMPARISON GUIDE

		OIL FILLED	WATER FILLED	EXPLANATION
Applications	Residential	✗	✓	Water filled submersible pumps are usually used in groundwater pumping, water delivery systems, circulation, and boosting for clean water.
	Commercial	✓	✗	Oil filled submersible pumps are used in large residential, commercial, and industrial sectors. They are ideal for heavy-duty use because of the sturdy built-finish.
Problem of Sealing		✓	✗	A faulty seal in Oil filled submersible pumps can cause a slew of issues. While Water filled will continue to function normally even if it is damaged.
Problem Of Rusting		✗	✓	Rusting does not occur in Oil filled submersible pumps. While rust is said to be a much bigger issue in Water filled submersible pumps.
Longer Service Span		✓	✗	Mechanical oil is used to lubricate Oil filled submersible pumps, which provide superior lubrication conditions than Water filled pumps, resulting in a longer service life.
Contamination Of Water		✓	✗	When it comes to an Oil filled submersible pump contamination is more common. If the seal is compromised, water will quickly enter the system and mix with the oil coolant. While, the problem of corrosion of water is quite rare in Water filled submersible pumps.
Energy Efficient		✓	✗	Oil filled submersible pumps are often more energy-efficient, which helps to lower electricity bills and, as a result, lowers the entire cost of a given service. Water filled submersible pumps are not as energy efficient as compared to oil-filled pumps
Function in Colder Climates		✓	✗	The oil-filled pump is recommended for usage in colder climates. The water-filled pump, on the other hand, performs well in dry and tropical climates where the temperature is relatively steady throughout the year.
Expensive		✓	✗	Oil filled submersible pumps are more expensive than water filled submersible pumps even if they have the same brand, power, head, and flow conditions.
Environmental Impact		✓	✗	Oil filled submersible pumps cause Oil pollution, which is not the case in Water filled submersible pumps.
Easy Repair		✗	✓	Oil filled submersible pumps are hard to repair, while Water filled submersible pumps are easy to repair.