

Oilfield Challenges SAND

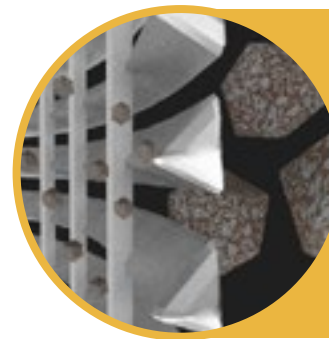


Sand in the well damages downhole hardware and restricts efficient fluid pumping operations.

FAMILIARITY WITH TYPES OF SAND

- *Formation sand is generally smaller and irregular in size compared to other sand.*
- *Frac sand is comparably larger, very uniform in size, and more abrasive.*

Slot Size	Description	Plugging Potential
0.006 - 0.008	Fine Formation Sand	High
0.012	Med Formation Sand and 20-40 Frac Sand	Medium
0.015	Large Formation Sand and 16-30 Frac Sand	Medium
0.018 - 0.020	Small Trash & 12-20 Frac Sand	Low
0.025 - 0.035	Med Trash - No Sand	Medium
0.050	Large Trash - No Sand - Large Iron Particles	Medium
0.075	Large Trash - No Sand - Large Iron Particles	Low



Slot size is the opening between the V-wires. This space between indicates filtration size and type.

It is not uncommon for tubing screens to plug when the OSI APPROACH is neglected. OSI conducts solids and sieve well analysis to properly size slots, tool lengths, & stages of filtration for maximum pump operations.

OSI understands solids in the well can hinder efficient pumping operations.

OSI APPROACH

With varying downhole conditioning tools utilizing single & multi-stages of filtration, OSI minimizes solids in the well by harnessing the knowledge of OSI sales, engineers, chemists, & field service personnel to work alongside producer partners in achieving effective and real-time solutions.

Hardware at risk

- Rods
- ESP Motors/Stage
- Tubing/Barrels
- PCP Elastomer/Rotor
- Plungers/Pistons