

Sandstone Stimulation Tube

Industrial Oilfield Chemical Grade

1. PRODUCT OVERVIEW

A high-purity dry powder optimized to maintain pore-throat space due to sandstone-type buildup.

- **Product Code:** SS-1076P
- **CAS Number:** Proprietary
- **Synonyms:** Mud-acid dissolver, Sandstone stimulant

2. TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Property	Specification / Value	Test Method
Appearance / Physical State	Yellow Tube	Visual
Size	1.25" OD x 14" Length	
Purity / Assay	≥ 99.5% Active	Lab Test
Density	1.63 g/mL at 25 °C	Calculated
Bulk Density	0.75 g/ml at 25 °C	Calculated
Melting / Freezing Point	Room temperature Powder Literature	
Moisture / Water Content	≤ 0.1%	Oven
Solubility	Miscible in water	Visual

3. APPLICATIONS & USES

- **Industrial:** Place 1-4 tubes in a well head per meter of Perforations, and allow tube to mix with fresh-water to dissolve tube contents. Contents dissolve pore-throat volume material such as sandstone and other silica-based material, such as mud.

- This is a self-contained tube-like cartridge that is dropped directly into a well to release components to target silicates and sand.
- The dry tube is placed in a wellbore, and is ejected into the wellbore. The tube reacts with water when travelling to the well-perforations.
- To further enhance product effectiveness, place a drum of low-calcium water ahead of the tube to be placed in the wellbore.
- **Quick reference for Injection Well Maintenance**
 - **Initial Dose:** Apply **1 tube** as soon as injection pressure starts to rise.
 - **Customization:** Every well is different. Experiment with the number of tubes and timing to find what works best for your setup.
 - **Pro-Tip:** For a stronger response, **shut in the well for 2–4 hours** after the product enters the formation.
 - **The Cause:** Pressure spikes are usually just debris building up near the formation face.
- Slightly slower reaction rate with sandstone (Quartz), and may require longer shut-in time. Approximately 26% sandstone dissolved, depending on subsurface conditions.
- Montmorillonite Clay is a preferential rapid target due to increased surface area. Approximately 17% clay dissolved, depending on subsurface conditions.
- The reaction products leave a temporary clay-stabilizer to limit clay from swelling.
- Not recommended for formations containing carbonate rock (such as limestone or calcite).
- Shut-in-window of 2-to-4 hours for a reservoir temperature near 35C. Do not exceed 4 hours as the spent acid will begin to drop chelated iron and dissolved solids back into the liquid.

4. STORAGE & HANDLING

- **Handling:** Provide adequate ventilation. Wear appropriate personal protective equipment (PPE) including chemical safety goggles and gloves. Avoid breathing vapors.
- **Storage Conditions:** Store in a cool, dry, well-ventilated area away from incompatible materials (e.g., strong oxidizers). Keep container tightly sealed when not in use.
- **Shelf Life:** 24 Months from the date of manufacture when stored under recommended conditions.

5. PACKAGING AVAILABILITY

Container Type Volume / Weight Part Number

Tube	~400 mL	SS-1076-P
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6. SAFETY & REGULATORY

- **Safety Data Sheet (SDS):** A comprehensive SDS is available upon request. Always read and understand the SDS before handling this product.
- **Hazards:** Refer to GHS labels on the packaging.