



TEAMWORK ISN'T OPTIONAL. IT'S ESSENTIAL.

DISSOLV SEAL™

Acid-Soluble Lost Circulation Material (LCM)

PRODUCT DESCRIPTION

DISSOLV SEAL™ is a specially engineered blend of acid-soluble lost circulation materials designed to provide effective fluid-loss control across a broad range of drilling, completion, and workover applications. The unique combination of sized flakes, fibers, and granular particles provides an optimized bridging structure capable of sealing fractures, vugs, and highly permeable formations while maintaining compatibility with completion fluids.

DISSOLV SEAL™ is specifically formulated for use in production intervals where removal of the LCM after placement is required. The material exhibits excellent solubility in dilute hydrochloric acid systems, allowing effective cleanup during stimulation operations while minimizing formation damage and residual solids.

The engineered particle-size distribution enables DISSOLV SEAL™ to bridge and seal fractures and thief zones exceeding 1,000 microns, making it effective for moderate to severe losses in naturally fractured, vugular, and highly permeable formations.

RECOMMENDED TREATMENT RATES

Seepage Losses:

5–15 lb/bbl added to the active fluid system.

Moderate to Severe Losses:

20–80 lb/bbl in a concentrated LCM pill or treatment sweep.

Actual concentration requirements should be determined based on loss severity, fracture characteristics, fluid type, and downhole conditions.

PACKAGING

- 25 lb bags
- 80 bags per pallet

SHELF LIFE

5 years (60 months) when stored in a dry environment in unopened original packaging.

KEY FEATURES AND BENEFITS

- **Highly Acid Soluble** – Greater than 90% solubility in dilute HCl, allowing efficient removal during acid stimulation and completion operations.
- **Effective Large-Fracture Sealing** – Optimized particle-size distribution provides rapid bridging and sealing of fractures, voids, and high-permeability zones.
- **Completion Fluid Compatible** – Suitable for use in a wide range of completion fluids including fresh water, brines, and high-density completion brines.
- **Production Zone Friendly** – Designed to minimize permanent formation impairment where acid cleanup is planned.
- **Non-Fermenting and Environmentally Acceptable** – Chemically stable, easily dispersed, and compatible with common oilfield fluid systems.
- **Versatile Application Range** – Effective for seepage losses through severe fluid-loss events.
- **Compatible with both water and oil based drilling fluid systems.**

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE
Appearance	Blend of flakes, fibers, and granules
Bulk Density	55 lb/ft ³
Acid Solubility	>95% in 3% HCl solution
Particle Size Distribution	D10: 111 µm D50: 1,085 µm D90: 3,235 µm

APPLICATIONS

DISSOLV SEAL™ is recommended for:

- Naturally fractured formations
- Carbonate reservoirs with vugs and fractures
- High-permeability production zones
- Completion fluid loss control
- Workover and intervention operations requiring acid-removable solids
- Reservoir sections where conventional non-soluble LCM may create formation damage concerns