

# CorrSorb Solid Corrosion Inhibitor

## Applications

- Oil and gas wells that exhibit potential for corrosion

## Features and Benefits

- Reduced Costs
  - Reduces downtime caused by corrosion in the near wellbore
  - Eliminates or reduces costly interventions
- Extended flow assurance
  - Safely and efficiently inhibits carbon dioxide and hydrogen sulfide with slow-release, long lasting chemicals
  - Works on produced fluids before reaching the near-wellbore area
  - Includes monitoring for residual inhibition
- Comprehensive well protection
  - Contains broad-use, water-soluble filming corrosion inhibitor
- Simple application
  - Permits multiple applications including gravel packs, frac packs, or fractures in new or existing wells
  - Offers compatibility with most fracturing fluids, as determined by lab analysis
- Qualified member of the SmartCare family of environmentally responsible solutions
  - Minimizes environmental impact without sacrificing performance
  - Increases transparency of chemical composition to stakeholders

The Baker Hughes **CorrSorb™ solid corrosion inhibitor** is a controlled-release additive that slowly desorbs from the proppant pack to provide immediate and long-term protection against corrosion to downhole assets. CorrSorb material comprises a dry, solid particle onto which a specialty chemical has been adsorbed. The product is nominally within the mesh size of 20/40 proppant. It is placed in the formation via a fracture, frac-pack, gravel-pack, or pre-packed screen system.

The amount of Sorb material added to the proppant is based on crush and conductivity tests done in preparation for the job, and the expected life of the treatment. When the well begins to produce, the corrosion inhibitor slowly desorbs into the water phase of the production, inhibiting corrosion deposition in the near-wellbore area and tubing. Because the product is dry and inert, it can be easily cleaned up and will not contribute to chemical runoff if spilled. This is environmentally preferable to conventional liquid additives or batch- and continuous-injection liquid chemical systems.

CorrSorb inhibitor is a Baker Hughes **StimPlus™ product** and is compatible for use with common stimulation fluids. StimPlus products are added to the stimulation fluid and placed deep into the formation, where they

can prevent deposition and costly production problems. Our service includes prestimulation system analysis, stimulation fluid compatibility, coordination with pressure pumping services, and post-frac monitoring services to minimize flow assurance issues and protect wellbore assets.

Note: Loading rates are based on expected production and desired longevity of treatment. Loadings greater than 2% by weight of proppant should be approved by the technical department based on fracture closure pressure.

The CorrSorb inhibitor is a member of the Baker Hughes **SmartCare™ family of environmentally responsible chemical solutions**, which helps ensure that clients' technical performance and environmental priorities are achieved. Evaluated by the Baker Hughes Environmental Services Group's chemical assessment review process, this product has been methodically vetted for health, safety, and environmental criteria, performance, consistency, compatibility, and value.

## Safety Precautions

Refer to the safety data sheets (SDS) for handling, transport, environmental information, and first aid.

## Technical Data

### Typical properties

Appearance	Off-white to tan solid granules
Odor	Mild
Typical maximum temperature	CorrSorb 3600 225°F (107°C) CorrSorb HT 400°F (204°C)
Specific gravity @ 60°F	CorrSorb 3600 1.8 to 2.2 g/cc CorrSorb HT 1.2 to 1.6 g/cc
Bulk density	CorrSorb 3600 28 to 33 lbm/ft <sup>3</sup> CorrSorb HT 37 to 45 lbm/ft <sup>3</sup>
Packaging	50-lb bags