



ScaleSorb Ultra solid scale inhibitors

The **ScaleSorb™ Ultra solid scale inhibitors**, from Baker Hughes, a GE company (BHGE), are high-strength controlled-release additives that slowly desorb from the proppant pack to provide immediate and long-term protection against scale deposition. ScaleSorb Ultra treatments minimize the risk of lost production and can significantly delay expensive interventions in deepwater and ultra-deepwater wells.

Like the BHGE **Sorb™ products**, the **Sorb™ Ultra family of products** delivers multi-year inhibition. Unlike Sorb products, Sorb Ultra products withstand high closure pressures.

The BHGE Sorb Ultra family of solid specialty chemicals safely and efficiently inhibits downhole deposition or tubular damage with slow-releasing and long-lasting chemicals that are adsorbed onto a solid substrate that is specially engineered for high-pressure deepwater environments and then pumped deep into the formation.

The amount of Sorb Ultra material added to the proppant is based on crush and conductivity tests done in preparation

for the job, and on the desired life of the treatment. When the well begins to produce, the scale inhibitor slowly desorbs into the water phase of the production, inhibiting scale deposition in the near-wellbore area and tubing. Because the product is dry and inert, it will not contribute to chemical runoff if spilled. This is environmentally preferable to conventional liquid additives or batch- and continuous-injection liquid chemical systems.

ScaleSorb Ultra inhibitor is a BHGE **StimPlus™ services** 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 pre-stimulation system analysis, stimulation fluid compatibility, coordination with pressure pumping services, and post-frac monitoring services to minimize flow assurance issues and protect wellbore assets.

Applications

- Deepwater and ultra-deepwater oil and gas wells

Benefits

- Reduces downtime caused by deposition in the near wellbore
- Eliminates or reduces costly offshore interventions
- Safely and efficiently inhibits downhole scale deposition with slow-release, long-lasting chemicals
- Works on produced fluids before reaching the near-wellbore area
- Includes monitoring using analytical methods
- Contains broad-use scale inhibitors
- Permits multiple applications including gravel packs, frac packs, or fractures in new or existing wells
- Ensures reliable application in high-pressure deepwater environments with specially engineered solid substrate
- Offers compatibility with most fracturing fluids, as determined by lab analysis
- Minimizes environmental impact without sacrificing performance
- Increases transparency of chemical composition to stakeholders

The ScaleSorb Ultra inhibitor is a member of the BHGE **SmartCare™ family of environmentally responsible chemical solutions**, which helps ensure that customers' technical performance and environmental priorities are achieved. Evaluated by the BHGE Environmental Services Group's chemical assessment review process, this product has been methodically vetted for health, safety, and environmental criteria, performance, consistency, compatability, 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	ScaleSorb Ultra 9003M inhibitor	325°F (165°C)
	ScaleSorb Ultra 9006 inhibitor	325°F (165°C)
	ScaleSorb Ultra 9008 inhibitor	500°F (260°C)
	ScaleSorb Ultra 9008M inhibitor	500°F (260°C)
	Specific gravity range at 60°F	2.9 to 3.2 g/cc
Bulk density	ScaleSorb Ultra 9003M inhibitor	95 to 106 lbm/ft ³
	ScaleSorb Ultra 9006 inhibitor	95 to 106 lbm/ft ³
	ScaleSorb Ultra 9008 inhibitor	95 to 110 lbm/ft ³
	ScaleSorb Ultra 9008M inhibitor	85 to 110 lbm/ft ³
Application	ScaleSorb Ultra 9003M inhibitor	General scale
	ScaleSorb Ultra 9006 inhibitor	General scale
	ScaleSorb Ultra 9008 inhibitor	High temperature scale
	ScaleSorb Ultra 9008M inhibitor	High temperature scale
Packaging	25-lb pails and 50-lb bags, super sacks	

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67273