

## SSA-1™

### Strength-Stabilizing Agent

**S**SA-1™ agent (also called silica flour) is a powdered sand that helps oilwell cement maintain low permeability and high compressive strength under high-temperature conditions.

#### Applications

SSA-1 agent is recommended for use in cementing wells where static temperatures exceed 230°F. Above this temperature, most cement compositions exhibit satisfactory compressive strength after the initial set but will rapidly lose strength after continued exposure to high temperatures. SSA-1 agent helps prevent this problem by chemically reacting with the cement at high temperatures. SSA-1 agent has been widely used in thermal recovery wells in combination with refractory-type cements.

#### Features

SSA-1 agent is mined and processed in the following two forms:

- in a minus 200-mesh powder for maximum reactivity in cement concentrations of normal weight
- in a selected particle-gradation design for densified cements where increased weights and maximum reactivity are required

#### Benefits

The greatest benefit of SSA-1 agent is its compatibility with various cementing materials and additives. SSA-1 agent is compatible with all cements as well as all commonly used retarders, friction reducers, low water-loss additives, and weighting and lost-circulation materials.

#### SSA-1™ Agent—Product Specifications

<b>Part No.</b>	100005059	<b>Bulk Density</b>	70.00 lb/ft <sup>3</sup>
<b>Form</b>	White, solid powder	<b>Packaging</b>	100-lb sack
<b>Specific Gravity</b>	2.630		

**For more information on the benefits SSA-1™ Agent can bring  
to your cementing operations, contact your local Halliburton representative.**

*[www.halliburton.com](http://www.halliburton.com)*

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