SODA ASH
SODIUM CARBONATE

DESCRIPTION
SODA ASH is the common name for sodium carbonate, which separates calcium into sodium and carbonate ions in solution. SODA ASH is certified to NSF/ANSI Standard 60, Drinking Water Treatment Chemicals - Health Effects.

RECOMMENDED USE
SODA ASH is used to raise the pH of make-up water for bentonite and polymer drilling fluids by precipitating soluble calcium. Using SODA ASH will increase the performance of bentonite and polymer drilling fluids.

ADVANTAGES
• Easy to mix and use
• Economical method to increase pH
• Maximizes yield of drilling fluid

MIXING AND APPLICATION
SODA ASH should be added slowly through a hopper or chemical barrel. When using a barrel, mix SODA ASH into a full barrel of freshwater and provide adequate agitation. Add SODA ASH until pH of 8.5-9.5 is obtained. Suggested ratio is 0.33 to 0.5 lb per 100 gallons (0.25 kg to 0.5 kg per 380 liters) water.

CHARACTERISTICS

<table>
<thead>
<tr>
<th>Physical Appearance</th>
<th>White Powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH (1 % solution)</td>
<td>11.4</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>2.51</td>
</tr>
<tr>
<td>Solubility</td>
<td>51 g/100 ml at 86 °F (30 °C)</td>
</tr>
</tbody>
</table>

PACKAGING
50 lb (22.7 kg) bags, 49 per pallet or 50 lb (22.7 kg) pails, 32 per pallet. All pallets are plastic-wrapped.