**BIRLASULF - SS**

Product Specification Sheet

**Name**: Sodium Sulphite

**Grade**: Photo

**Description**: Sodium Sulphite is a free flowing crystalline odourless powder.

**Formula**: $\text{Na}_2\text{SO}_3$

**Molecular Weight**: 126.05

**Bulk Density**: 1.3 - 1.5 kg/dm$^3$

**Appearance-20% Sln.**: Clear & colorless

**CAS NO**: 7757-83-7

**Specification**:

<table>
<thead>
<tr>
<th>Assay</th>
<th>% w/w</th>
<th>99.0 Min.</th>
<th>Iron (as Fe)</th>
<th>ppm</th>
<th>3 Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulphates</td>
<td>% w/w</td>
<td>1.0 Max.</td>
<td>Heavy Metals (as Pb)</td>
<td>ppm</td>
<td>10 Max.</td>
</tr>
<tr>
<td>Moisture</td>
<td>% w/w</td>
<td>0.05 Max.</td>
<td>Sodium chloride</td>
<td>ppm</td>
<td>50 Max.</td>
</tr>
<tr>
<td>Insolubles</td>
<td>%</td>
<td>0.03 Max.</td>
<td>Arsenic</td>
<td>ppm</td>
<td>1 Max.</td>
</tr>
<tr>
<td>pH of 5% Solution@25°C</td>
<td>9.5 - 10.6</td>
<td>Selenium</td>
<td>ppm</td>
<td>2 Max.</td>
<td></td>
</tr>
<tr>
<td>Ca/Mg NH$_4$OH Insol. %</td>
<td>0.5 Max.</td>
<td>Ammonium Silver Nitrate Test</td>
<td>----</td>
<td>Passes</td>
<td></td>
</tr>
</tbody>
</table>


The above mentioned Values are according to the requirements of:

**FDA**: Food & Drug Administration of Thailand.

**FCC**: Food Chemical Codex, USA

**BP**: British Pharmacopoeia, England.

**ANALYSIS METHODS**:

The indicated values are determined according to our Standard Analysis method, which can be produced on request.

**STANDARD PACKING**:

- 25 Kgs Polypropylene Woven / paper bags with heat sealed inner liner.
- 500 Kgs & 1000 Kgs Jumbo Bags.

**STORAGE & HANDLING**:

Store the product in a dry cool & humid free place. On exposure to air, it oxidizes to Sodium Sulphate.

The product can be handled in bulk with mechanical, pneumatic and vacuum system.

**MAJOR APPLICATIONS OF SODIUM SULPHITE**:

- Photography: In formulation of developers and fixers solutions.
- Water Treatment: Oxygen scavenger in Boiler water and drilling water.
- Effluent water-treatment of excess Chlorine & detoxification of Chromic acid in electroplating industries.
- Pulp & Paper: In processing of semi-chemical pulp production in chemi-thermo-mechanical and Kraft pulping process.
- Chemical industry: manufacture of Sodium Thiosulphate, Sulphonating agent
- Desalination plants for manufacturing Potable water.
- Detergents: manufacture of sulfosuccinates.
- Dyestuffs: reducing agent in manufacture of indigo-as dyes
- De-chlorination: as an antichlor following bleaching by sodium hypochlorite.
- Chemical: Raw material in manufacture of Sodium-Sulfur chemicals.
- Latex: stabilizing latex.
- Leather industry: antibacterial in tanning process.
- Food processing: as preservative, antioxidant and enzyme inhibitor

This Technical data sheet identified as TDS / SS / 0803. Cancels & replaces all previous editions.

The data, information contained herein are given purely as a guide. We undertake no responsibility either for the results deriving from their adoption or for possible position in apparent contrast with existing patent right.