**QS-NCS-009-SC**

QS-NCS-009-SC is a Surface-Sizing Nano-Cellulose that has been specially treated to use as a surface coating that will enhance the hydrophobic performance when used in the manufacturing of paper.

**Characteristics**

- Biodegradable
- Intensifying
- Self-assembly
- High surface activity

**Specifications**

<table>
<thead>
<tr>
<th>Appearance</th>
<th>White to light yellow hydrogel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber diameter (nm)</td>
<td>≤ 20</td>
</tr>
<tr>
<td>Length to diameter ratio</td>
<td>≥500</td>
</tr>
<tr>
<td>PH</td>
<td>6 - 8</td>
</tr>
<tr>
<td>Concentration (%)</td>
<td>3% ± 0.5%</td>
</tr>
</tbody>
</table>

**Application Benefits**

QS-NCS-009-SC has been developed for the specific purpose of improving the water resistance of paper, to a point that there is the potential to eliminate plastics and aluminum in food packing.

As well as food packing, there are significant benefits for those looking for water resistant packing for consumer goods, where the biodegradability of the products used is now at the forefront of all consumers’ minds.

- Single usages paper straws & bags
- Consumer goods packing
- Food packing
Suggestion for Paper-Packing

To enhance the paper surface sizing properties, this form of Nano-Cellulose can be either diluted into starch or used to replace traditional surface sizing agents.

We suggest the addition of 3-5kg of this specific nanocellulose solution per tonnage of paper starch to the starch gelatinization tank, dilute with water and disperse evenly before gelatinization.

Packing, Transportation and Storage

1-ton tank or as per customer requirement.

Store the product in a cool and well-ventilated place and prevent exposure to direct sunlight, as due to the natural biomass composition of the Nano-Cellulose, which makes it perform so well, the shelf life will be 2 months. However, when stored correctly, for example, in a refrigerated area, the shelf life will be extended.