

Properties	Various effects	Uses
Surface area effect	<ul style="list-style-type: none"> <li>• Surface area per weight is over 100 times higher than that of usual fibers.</li> <li>• Very large adsorption.</li> </ul>	<ul style="list-style-type: none"> <li>• Adsorption material</li> <li>• Biochemical hazard prevention material</li> <li>• Ion-exchange material</li> </ul>
Slip effect	<ul style="list-style-type: none"> <li>• Flow of molecules changes and pressure loss becomes much smaller.</li> </ul>	<ul style="list-style-type: none"> <li>• Air filter</li> <li>• Biochemical hazard prevention material</li> </ul>
Light effect	<ul style="list-style-type: none"> <li>• Structure color appearance with transparent fiber with diameter less than wavelength of visible light.</li> </ul>	<ul style="list-style-type: none"> <li>• Organic EL</li> <li>• Electronic paper</li> <li>• Fashion material</li> <li>• Polarizer</li> </ul>
Surface tension effect	<ul style="list-style-type: none"> <li>• Low surface tension force, water repelling of hydrophilic polymer.</li> </ul>	<ul style="list-style-type: none"> <li>• Coating material</li> <li>• Paint</li> </ul>
Three-dimensional effect	<ul style="list-style-type: none"> <li>• Three-dimensional growth of cells on non-woven textile.</li> </ul>	<ul style="list-style-type: none"> <li>• Reclamation medical</li> </ul>
Sub-micron object catching effect	<ul style="list-style-type: none"> <li>• Catching sub-micron-sized particles.</li> </ul>	<ul style="list-style-type: none"> <li>• Biochemical hazard prevention material</li> <li>• Suit</li> <li>• Engine filter</li> <li>• Boiler</li> <li>• Air cleaner</li> <li>• Air conditioner</li> </ul>

Table 1: Uses of nanofiber utilizing its properties (adapted from Ref. [?]).