

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

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