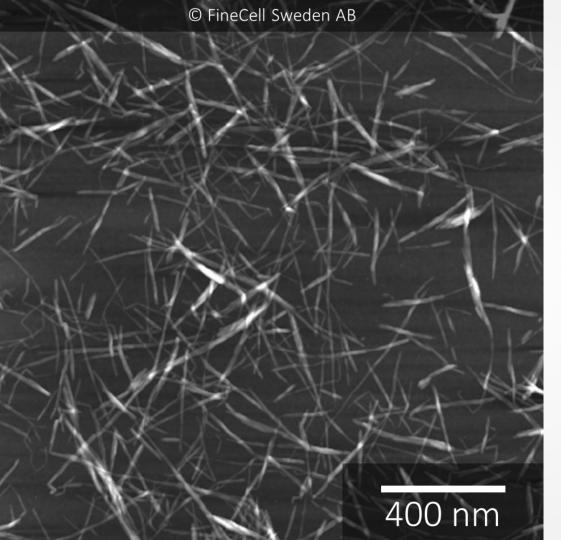


Sustainable Cellulose Microfibers for Greener & Differentiated Products





Features of our Cellulose Micro-/Nanofiber

Dimension

Tunable length 100-900 nm Width 3-4 nm

Tunable surface charge

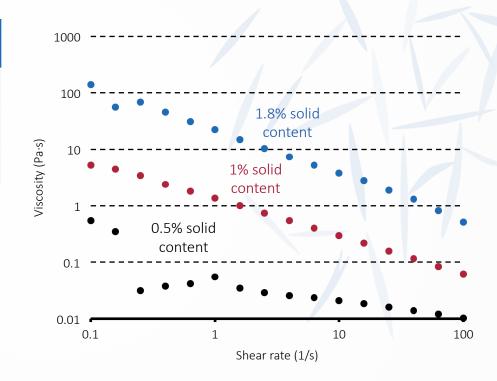
Ranging from 0.1 to 1.1 mmol/g, corresponding to a nearly uncharged and an anionic surface (the surface of our Cellulose Micro-/Nanofiber is functionalized with carboxyl groups)

RHEOLOGY VS SOLID CONTENT

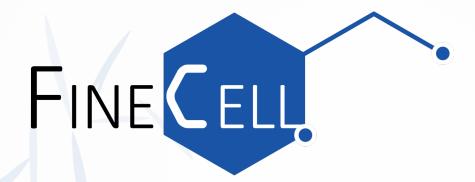
Shear rate (1/s)	Viscosity at 1.8% solid content (Pa·s)	Viscosity at 1% solid content (Pa·s)	Viscosity at 0.5% solid content (Pa·s)
0.1	141.8	5.2	0.5
1	22.0	1.4	0.05
10	3.8	0.3	0.02

TEST CONDITION

Kinexus Rotational Rheometer (Malvern) at room temperature and in cone-plate geometry. Approximately 1 ml of sample was utilized per run. The viscosity of the samples was measured across the shear rate range of $0.1~\rm s^{-1}$ to $100~\rm s^{-1}$. The samples were equilibrated for 3 min prior to each run.







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