

# Cellulose nanocrystal ball

**Excellent re-dispersibility in water and high activity due to no surface treatment**

## Overview

Cellulose nanofiber (CNF) and cellulose nanocrystal (CNC), which are lighter and stronger than steel, are expected as a filler to replace an inorganic material. Although CNC with a lower aspect ratio and higher crystallinity than CNF is more suitable as a filler, research and development for commercialization has not progressed. This technology relates to a method for simply and easily producing CNC ball by homogenizing microcrystalline cellulose in a good solvent and replacing good solvent to poor solvent. The CNC ball obtained by this method is excellent re-dispersibility in water, and the surface modification for use as a filler can be easily.

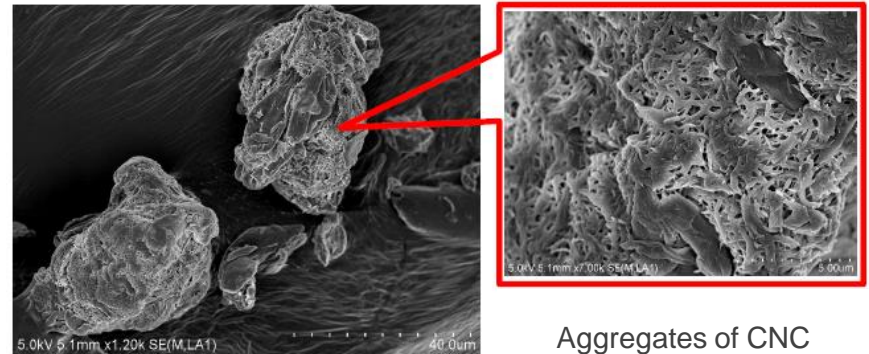
## Product Application

- ☐ Filler in plastic
- ☐ Material for high proton conductivity electrolyte membrane
- ☐ Material for water electrolysis membrane
- ☐ Material for drug carrier

## IP Data

IP No. : JPB 6731593  
 Inventor : Jun ARAKI, Toshihiko ARITA  
 Admin No. : T15-073

## Appearance of CNC ball



Aggregates of CNC

## Related Works

## Contact