Supplementary material

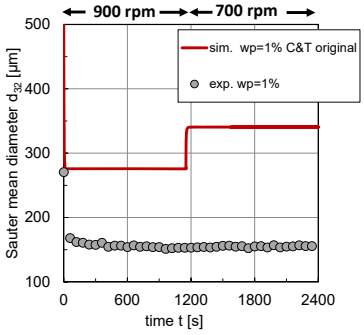

Figure S1. Comparison experimental and simulated transient Sauter mean diameters for $w_p = 1\%$. Simulations were performed with the original (unmodified) C&T submodels and the free parameters summarised in Table 1. The impact of the particles on density and viscosity is considered in the simulations with $\eta_c = 1.72\,mPas$ and $\rho_d = 1003.88\,kg/m^3$.