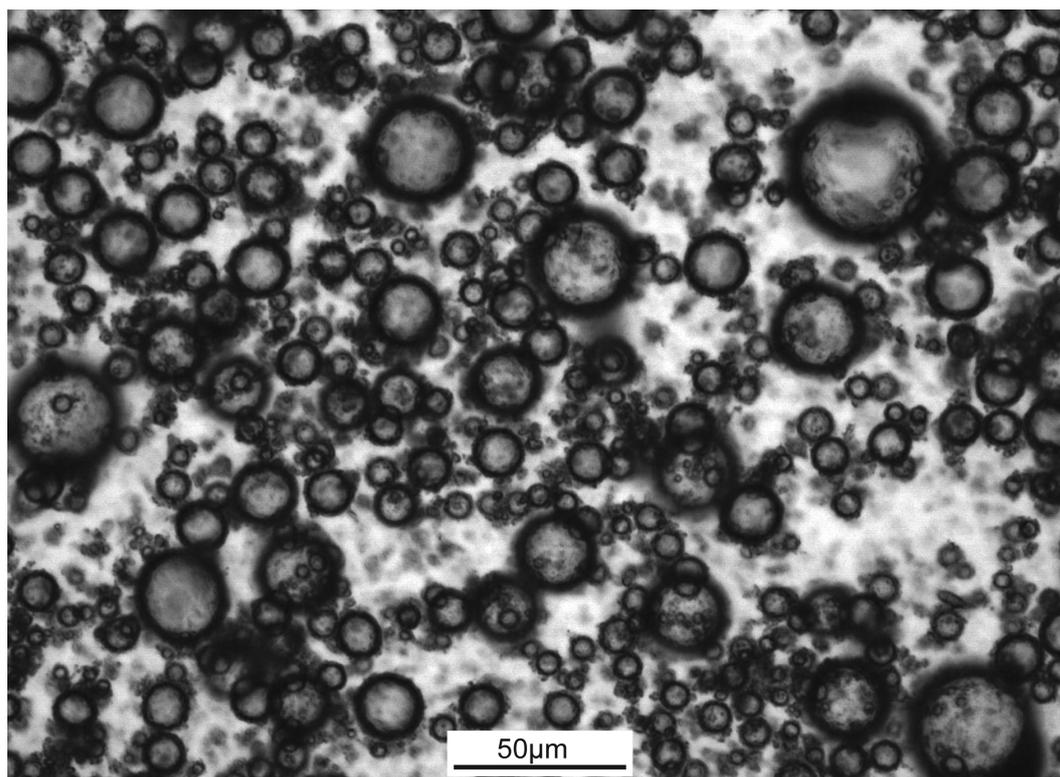
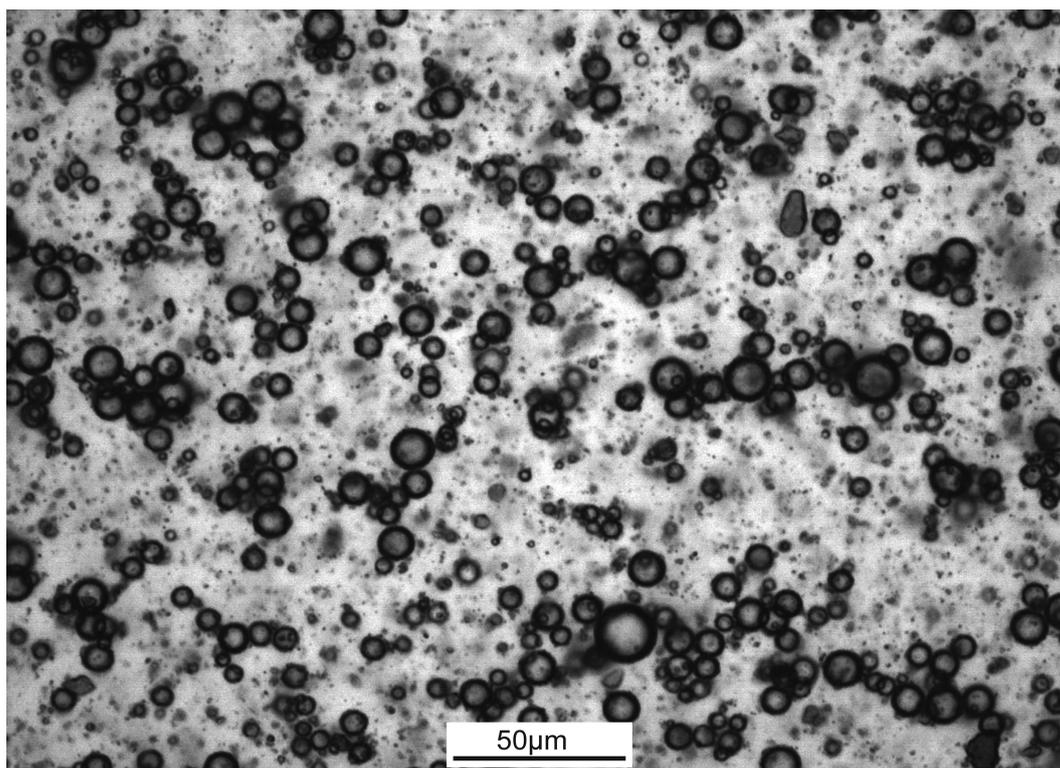


Supplementary Fig. 1: Light microscopy image of a diluted particle-stabilized water-in-cottonseed oil emulsion. The emulsion was prepared dispersing 8.4 mL aqueous solution in 12.6 mL of a 10 vol% oil based alumina suspension. Emulsification was performed using a rotor stator type homogenizer with 25 mm tool diameter and 2 mm slit width (ESCO Labor AG, Riehen, Switzerland) for 10 s at 150 W power. Powder: α -alumina, median particle size 200 nm (Ceralox HPA-0.5, Sasol North America Inc., Tucson, AZ). Continuous phase oil: cottonseed oil (pure, Acros Organics, Geel, Belgium). Dispersed phase: aqueous solution (ultra pure water 18.2 M Ω , Barnstead NANOpure Diamond, Thermo Fisher Scientific Inc., Reinach, Switzerland) of sodium carbonate (water free, pro analysis, Sigma-Aldrich Chemie GmbH, Buchs, Switzerland).



Supplementary Fig. 2: Light microscopy image of a diluted particle-stabilized water-in-s-limonene emulsion. The emulsion was prepared dispersing 8.4 mL aqueous solution in 12.6 mL of a 10 vol% oil based alumina suspension. Emulsification was performed using a rotor stator type homogenizer with 25 mm tool diameter and 2 mm slit width (ESCO Labor AG, Riehen, Switzerland) for 10 s at 150 W power. Powder: α -alumina, median particle size 200 nm (Ceralox HPA-0.5, Sasol North America Inc., Tucson, AZ). Continuous phase oil: s-limonene (97%, ABCR-Chemicals, Karlsruhe, Germany). Dispersed phase: aqueous solution (ultra pure water 18.2 M Ω , Barnstead NANOpure Diamond, Thermo Fisher Scientific Inc., Reinach, Switzerland) of sodium carbonate (water free, pro analysis, Sigma-Aldrich Chemie GmbH, Buchs, Switzerland).



Supplementary Fig. 3: Light microscopy image of a diluted particle-stabilized water-in-soybean oil emulsion. The emulsion was prepared dispersing 8.4 mL aqueous solution in 12.6 mL of a 10 vol% oil based alumina suspension. Emulsification was performed using a rotor stator type homogenizer with 25 mm tool diameter and 2 mm slit width (ESCO Labor AG, Riehen, Switzerland) for 10 s at 150 W power. Powder: α -alumina, median particle size 200 nm (Ceralox HPA-0.5, Sasol North America Inc., Tucson, AZ). Continuous phase oil: soybean oil (Sigma-Aldrich Chemie GmbH, Buchs, Switzerland). Dispersed phase: aqueous solution (ultra pure water 18.2 M Ω , Barnstead NANOpure Diamond, Thermo Fisher Scientific Inc., Reinach, Switzerland) of sodium carbonate (water free, pro analysis, Sigma-Aldrich Chemie GmbH, Buchs, Switzerland).