

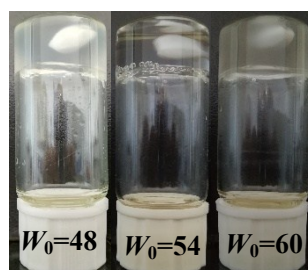
Supporting Information

Self-assembly of quaternary ammonium gemini surfactants in cyclohexane upon reinforcement of simple counterions

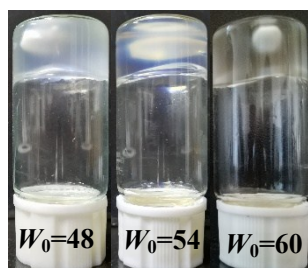
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12-2-12/NaBez:



12-6-12/NaBez:



12-10-12/NaBez:

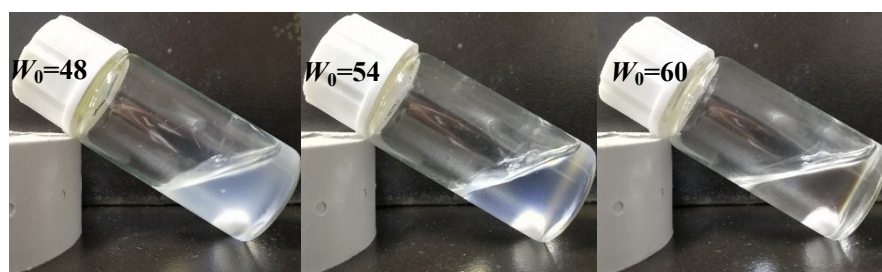


Fig. S1 Sample appearances of equi-charged mixtures of 12-2-12/NaBez (top), 12-6-12/NaBez (middle) and 12-10-12/NaBez (bottom) in cyclohexane with a gemini concentration of 200 mmol·L⁻¹ and marked W_0 at 30 °C.

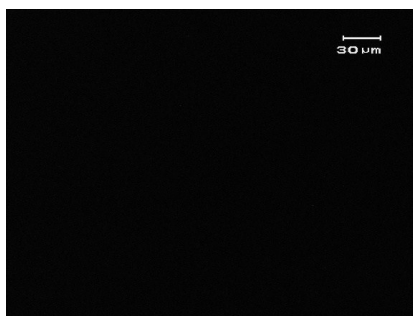
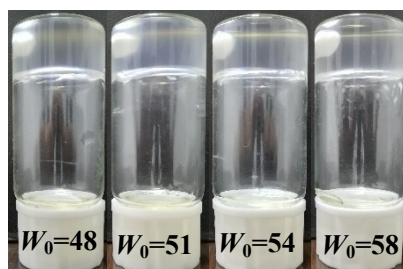
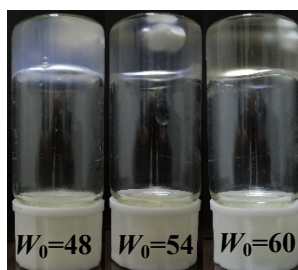


Fig. S2 Polarising micrograph of equi-charged mixture of 12-2(10)-12/NaBez (200/400 mmol·L⁻¹).

12-2-12/NaSal:



12-6-12/NaSal:



12-10-12/NaSal:

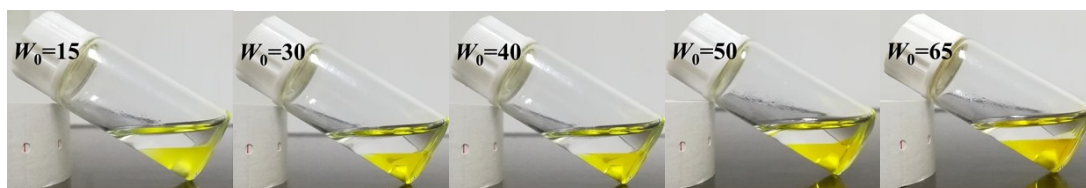
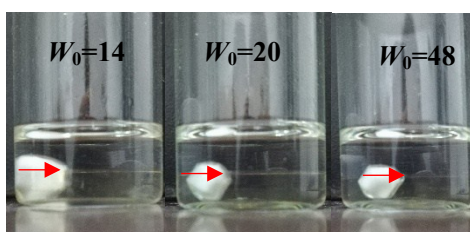


Fig. S3 Sample appearances of equi-charged mixtures of 12-2-12/NaSal (top), 12-6-12/NaSal (middle) and 12-10-12/NaSal (bottom) in cyclohexane with a gemini concentration of 200

mmol·L⁻¹ and marked W_0 at 30 °C. In the 12-10-12/NaSal, oil two-phases were formed, where methyl orange dye was solubilised in the surfactant aggregates so as to indicate two phases more clearly.

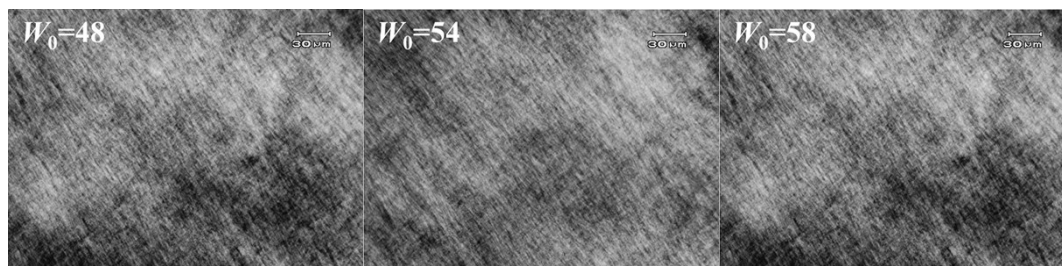


Fig.S4 Polarising micrographs of eqi-charged mixtures of 12-2-12/NaSal (200/400 mmol·L⁻¹).

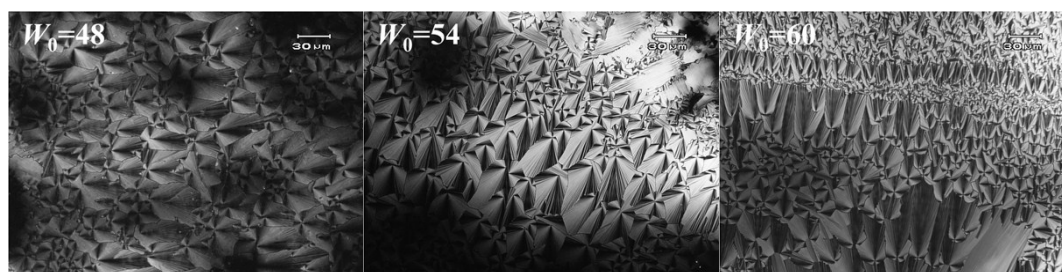
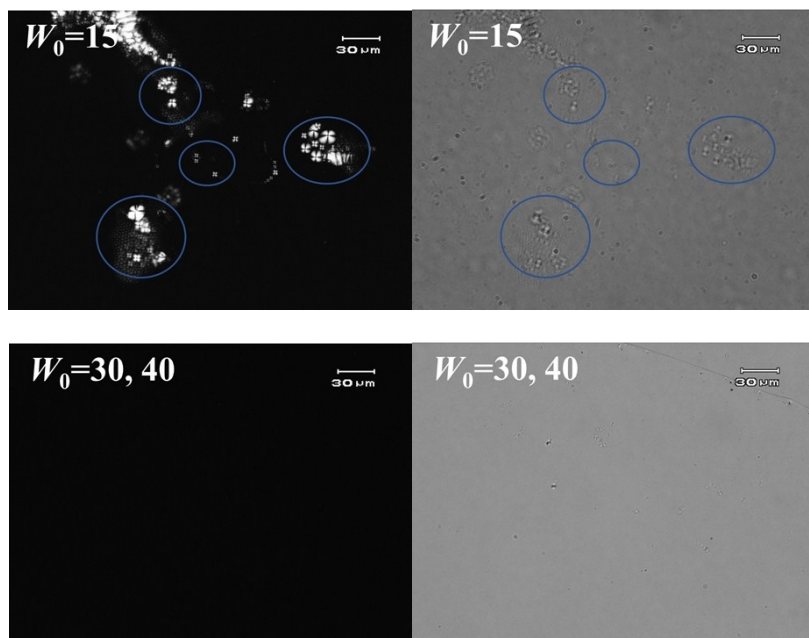


Fig. S5 Polarising micrographs of eqi-charged mixtures of 12-6-12/NaSal (200/400 mmol·L⁻¹).



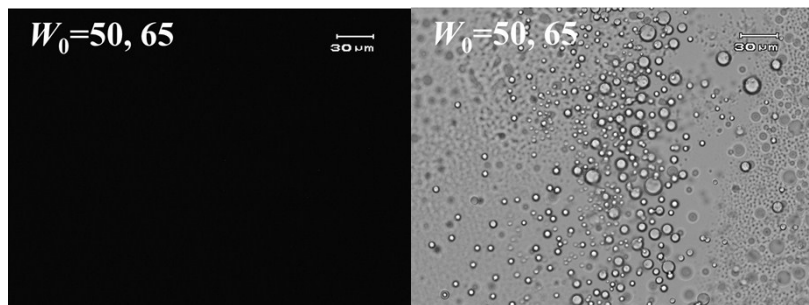
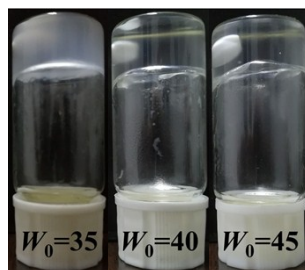
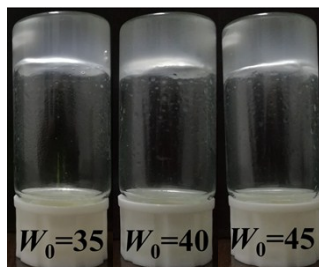


Fig. S6 Micrographs of some 12-10-12/NaSal ($200/400 \text{ mmol}\cdot\text{L}^{-1}$) samples with (left rows) and without (right rows) a polariser.

12-2-12/NaBres:



12-6-12/NaBres:



12-10-12/NaBres:

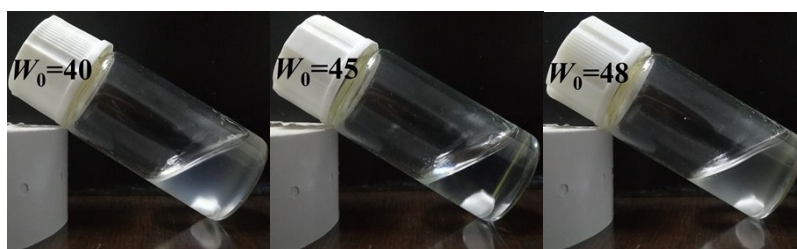


Fig. S7 Sample appearances of equi-charged mixtures of 12-2-12/NaBres (top), 12-6-12/NaBres (middle) and 12-10-12/NaBres (bottom) in cyclohexane with a gemini concentration of $200 \text{ mmol}\cdot\text{L}^{-1}$ and marked W_0 at $30 \text{ }^\circ\text{C}$.

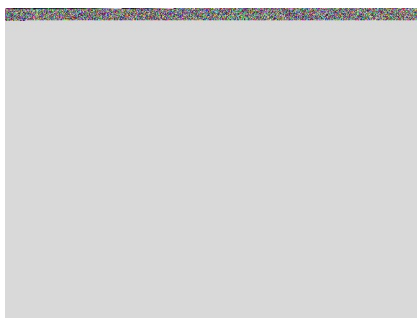


Fig. S8 Polarising micrograph of equi-charged mixture of 12-2(10)-12/NaBres (200/400 mmol·L⁻¹).