



## Water-insoluble sodium carboxymethyl cellulose Sunrose® SLD Series – Emulsion stability –

When Sunrose® SLD Series is dispersed in water, the **carboxymethylated portion** will absorb water and swell, **forming a three-dimensional structure**.

### Emulsion stability of Sunrose® SLD Series

#### Method for emulsion preparation

An emulsion is prepared by adding the each agent (0.5%) to a mixture of water and vegetable oil (50:50), which is then agitated for 5 minutes with a Homo Mixer at 8,000rpm.

Day 1



Day 7



Samples: 1) SLD Series, 2) commercial cellulose formulation, 3) CMC, 4) powdered cellulose, 5) blank, 6) SLD Series

In an emulsion using the SLD Series, **minute drops of oil are dispersed and held** within the three-dimensional mesh structure; by preventing the oil droplets from clustering, SLD Series **ensures the emulsion remains stable**.

For more details on our products, please contact:

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