



## Water-insoluble sodium carboxymethyl cellulose Sunrose® SLD Series

### – Heat resistance of fillings, shape keeping effect –

Sunrose® SLD water-insoluble sodium carboxymethyl cellulose is slightly carboxymethylated; this type of CMC combines properties of both powdered cellulose and CMC. Added to fillings, it can provide a number of useful properties such as heat resistance and shape keeping.


#### Experiment: adding to peanut butter

| Mixture sample |         |             |
|----------------|---------|-------------|
| Ingredient     | Control | 1% addition |
| Peanut butter  | 100.0%  | 99.0%       |
| SLD-F1         | -       | 1.0%        |
| Total          | 100.0%  | 100.0%      |


Mixture sample

- 1) Mix ingredients and measure 20 grams onto a filter paper.
- 2) Bake at 80°C for 10 minutes in a convection oven.
- 3) Compare before baking and after baking.

Before baking



After baking



#### Effects of adding SLD

- Prevents change in texture even after baking (improved heat-resistance)
- Maintains original shape even after baking (improved shape-keeping properties)

For more details on our products, please contact:

Nippon Paper Industries Co.,Ltd. < <http://www.npchem.co.jp/form/index.html> >

**Chemical Division**

4-6, Kandasurugadai, Chiyoda-ku, Tokyo 101-0062, Japan

**Sales Department No.2**

Phone: +81-3-6665-5900 Facsimile: +81-3-6665-0360

**Kansai Sales Department**

MID Imabashi Building, 2-3-16, Imabashi, Chuo-ku, Osaka 541-0042, Japan

Phone: +81-6-6228-6300 Facsimile: +81-6-6228-6303