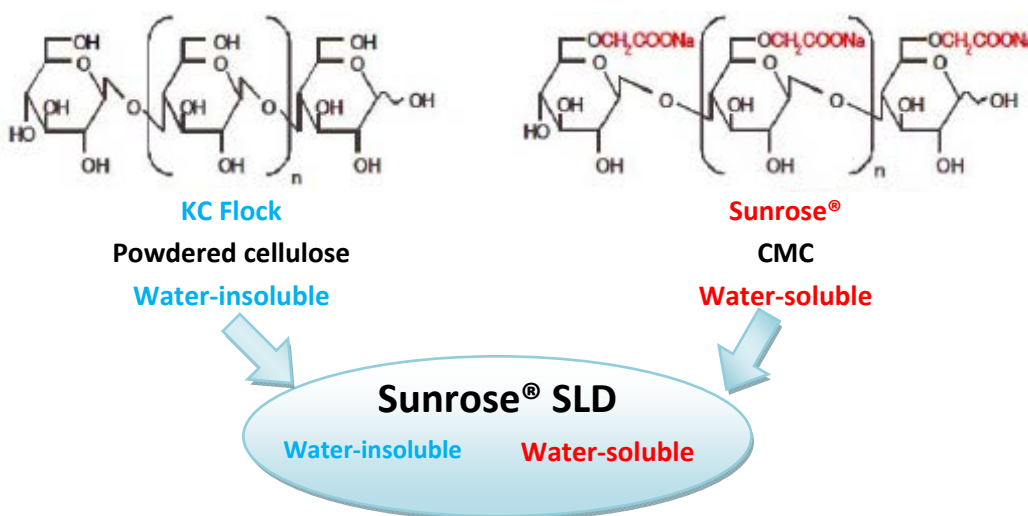




## Water-insoluble sodium carboxymethyl cellulose Sunrose® SLD Series - Product outline -

Sunrose® is a carboxymethyl cellulose (CMC) produced from carboxymethylated high-purity cellulose that is widely used in various fields and is not only harmless to humans but also features slow biodegradability, making it easy on the environment. NPC has also developed Sunrose® SLD, slightly carboxymethylated cellulose. This type of CMC combines properties of both powdered cellulose and CMC.



### General quality

Product	SLD-F1	SLD-FM
Appearance	Powdery form	Fine powdery form
Average particle type	50-60µm	15-20µm
Moisture (%)	10.0>	
ph	6.0-8.0	
1% viscosity (mPa.s)	50-150	
Degree of etherification (mol/C6)	0.20-0.30	
Purity (%)	99.0<	

### Basic performance

- SLD Series **swells** in both cold and warm water, dissolving slightly but not completely, and becomes **mildly viscous**.
- In water SLD Series exhibits **superb dispersion stability and degradability**.
- SLD Series **prevents other** suspended particles **from caking** and **redisperses them**.
- SLD Series exhibits excellent **water absorption, water retention, shape retention, foam stability, and emulsion stability**.
- **By absorbing highly concentrated sugar solutions, it prevents "weeping"**.



## Application fields

Food	Beverages (cocoa, fiber and pulp contained juices, Shiruko, Amazake, etc.); Soups (corn soups, ramen soups, miso soups, consommés); sauces, dressings, ketchups, mayonnaise, jam, and yogurts; whip cream, fillings; tablet disintegrating agents (supplements, etc.); dried goods (dry processed foods, instant ramen, pasta noodles); ice creams, Monakas, edible films, confectionaries (gummies, soft candies); bread (sweet breads, cream-filled breads); other processed foods and ingredients for food processing (powdered azuki, etc.)
Cosmetics	Face powders, foundations, scrub face-washes, facial masks, face-wash foams, face-wash creams, hair mousses, shampoos, soaps, lotions, hair dyes, hair bleaches, mascaras, eye-liners, nails, antiperspirants
Daily goods	Toothpastes; cleansers for kitchen items and utensils, bathtubs, tiles, cars, etc.; pet foods; air-fresheners; cleaning sheets for toilet bowl; water-dissolving papers, nonwoven fabrics, etc.
Papers	Paper strengthener, water retention agent, coating agent, bulky papers, yield improving (oxidized titanium, etc.), etc.
Milk substitutes	Dispersion of plant proteins, emulsion stability, improvement in moisture-retaining property
Filtration (water removal)	Cooking oils, various solvents
Building material	Fiber walls, sand walls, gypsum boards, etc.
Civil engineering	Air bubble shields
Resin fillers, compounds	Styrene foams, biodegradable resins, rubber, ceramics, vinyl chlorides
Paint, varnish, artificial leather	Mat paints, architectural coating/paints, interior coating/paints for vehicles, etc.
Dispersant	Carbon black fine particles, barium sulfate (x-ray contrast agent), oxidized titanium, dispersion of zinc oxide, etc.
Moisture absorption aid	Improves shape retention properties of materials such as calcium chloride and other deliquescent agents when absorbing moisture
Others	Fiber (texture modifier for fabrics and threads), fluid carriers, lubricants, etc.

## For more details on our products, please contact:

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