

NovaSOL® Rosemary

Novel Natural Water & Fat Soluble Antioxidant



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NovaSOL® Rosemary is a novel, water and fat soluble natural antioxidant. The phenolic diterpenes, e.g. carnosic acid is made available by means of an ultra fine and homogenous distribution that utilizes structure, which exhibit a structure with a scale of only 30 nanometres.

This makes it possible for NovaSOL® Rosemary to create crystal clear solutions, which prove to have a significantly higher effectiveness than other formulations on the market today. The so called product micelles are the unique carrier for Rosemary and are thermally, and mechanically stable.



NovaSOL® Rosemary inhibits the oxidation of fats and oils by functioning as a free radical scavenger, inactivating free radicals as they form and thus blocking oxidation in the early stages. As a result, it provides protection for flavour stability by inhibiting the development of rancid flavours and warmed over flavour and the destruction of desirable flavours.

Application focus for NovaSOL® Rosemary

NovaSOL® S is recommended for the following products and applications:

- Processed meat and poultry
- Fats and oils
- Snack foods
- Cereals
- Baked products
- Frozen foods
- Dehydrated products
- Soups, sauces, noodles
- Seafood
- Mayonnaise and dressings
- Confectionary products
- Flavoring materials
- Coloring materials
- Pet foods



Advantages

Utilize the unique NovaSOL® Rosemary characteristics for your products:

- Enhanced flavour stability
- Extended shelf life
- Superior antioxidant capacity
- Inhibiting development of rancid flavors
- Low usage levels for stability results
- Usable at higher levels for flavor without pro-oxidant effects
- Liquid and clear solution
- Water and oil soluble
- Labeled as "natural flavor" or "spice extract"
- Usable in flavor sensitive products
- Optimized distribution in the product
- Cost competitive

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In many applications, the low usage levels needed to provide good stability result in little or no noticeable rosemary flavour, yet can smooth out or enhance overall product flavour. In other applications, higher usage levels are required for both the desired protection and rosemary flavour.

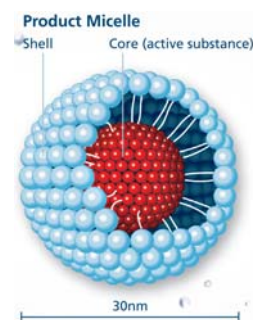
NovaSOL® Rosemary is safe, cost effective alternate to other antioxidants and can be used at higher levels for pronounced flavour without any pro-oxidant effect.

Application	Dosage (per kg)	Incorporation
Processed meat & poultry	0,75 - 1,5g	direct addition
Fats and oils	0,75 - 1,5g	direct addition
Seafood	0,75 - 1,5g	direct addition
Mayonnaise/Dressings	0,75 - 1,5g	direct to oil
Baked products	1,5 - 3,0g	direct addition
Frozen foods	0,75 - 1,5g	direct addition
Pet foods	0,75 - 1,5g	direct addition



Presentation

NovaSOL® Rosemary is offered as bulk solubilisate (yellowish liquid).



Documentation & Samples

On request we will supply you with:

- Product data sheets
- Material safety data sheets (MSDS)
- Study reports
- Samples

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AQUANOVA is a supplier of innovative and versatile formulations of food and cosmetic ingredients, nutrients and pharmaceutical actives with superior properties providing new application opportunities. AQUANOVA in close cooperation with renowned scientists develops and manufactures (under ISO / GMP) liquid formulas (solubilisates with product brand "NovaSOL®") utilizing its proprietary technology. The solubilisates have a micelle structure, which is thermally, mechanically and pH stable, even in gastric acid. Owing to the special properties of this micelle structure, the solubilisates support the development of novel innovative and pioneering dietary supplements, functional foods and beverages, cosmetic products and pharmaceuticals. The company's headquarter is located in Darmstadt (near Frankfurt), Germany.

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