

# PREMIER SPECIALTIES

Premier Specialties, Inc. 201 Egel Avenue, Middlesex, New Jersey 08846-2502

## PREMOX™ R3204 Natural Antioxidant



Extracted from only the finest quality leaves of Rosemary, Premier introduces **PREMOX™ R3204**, a highly effective, all-natural antioxidant.

This specially refined grade of rosemary extract has been optimized to minimize any sensory attributes typically associated with rosemary extracts.

To meet the growing demand for all-natural products, PREMOX™ R3204 is available with organic certification and is produced according to international standards ensuring that all products are free from pesticides and insecticides (**PREMOX™ R3204 Organic** - Premier Code #449505).

### WHY ROSEMARY?

The extract from the highly fragrant herb rosemary is extremely rich in phenolic compounds such as carnosol and carnosic acid which are responsible for the strong anti-oxidative properties and effectiveness against lipid peroxidation. They also contribute to anti-microbial and antifungal efficacy making rosemary extract a natural choice for preventing rancidity action and protecting product stability.

PRODUCT NAME  
PREMOX™ R3204

APPLICATION(S)  
personal care  
color cosmetics  
anti-acne  
anti-aging  
natural

COMPOSITION (INCI)  
Rosmarinus officinalis

ORIGIN  
Plant

CAS NUMBER(S)  
84604-14-8

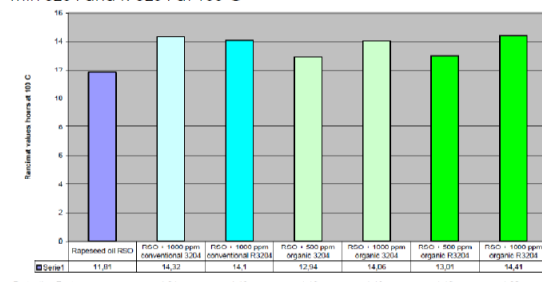
USE LEVELS  
500 – 1000 ppm, i.e.  
500 gm – 1kg per MT  
of final product

SOLUBILITY  
Oil

PRODUCT CODE  
Premier#449520

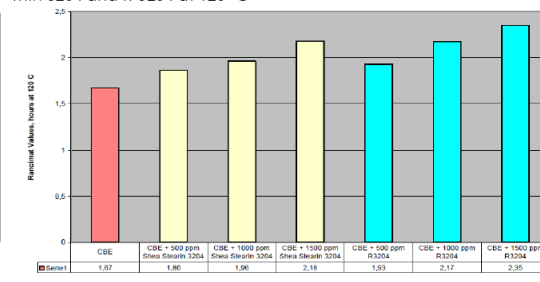
### OXIDATIVE STABILITY: A Step Function of Antioxidant Concentration

Comparison for Rape Seed Oil (RSO)  
with 3204 and R-3204 at 100°C



The Rancimat values are increased by 20%

Comparison for Shea Butter Extract (SBE)  
with 3204 and R-3204 at 120°C



The Rancimat test shows that the stability is prolonged substantially, up to 40%

### PREMOX™ R3204 TYPICAL PROPERTIES

Appearance	Slightly viscous liquid
Color	Brown
Odor*	Characteristic
Carnosic acid content (HPLC)	3-5%
Water (Karl Fisher)	0.5% Max.

Information contained in this technical literature is believed to be accurate and is offered in good faith for the benefit of the consumer. The company, however, cannot assume any liability or risk involved in the use of its chemical products since the conditions of use are beyond our control. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. The products are for industrial use only. We make no warranty of any kind, expressed or implied, other than that the material conforms to the applied standard specifications.

October 27, 2015