# FIORIOCOLORI <sup>by</sup>NACTAROME TIO<sub>2</sub> REPLACERS

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www.nactarome.eu www.fioriocolori.ii

## REPLACING TITANIUM DIOXIDE

According to EFSA's latest evaluation based on consistent scientific data, E171 -Titanium Dioxide - does not appear safe for human consumption and has been banned for use in food and beverage applications across the European Union. Companies have been given until mid-2022 only to phase out its use and search for alternatives. However, latest reports have shown that other markets may be following suit.

Data from market research company Mintel shows that in the EU new product launches containing titanium dioxide have steadily declined since 2019 and manufacturers have been working to phase E171 out for some time now from all sorts of food and beverage products, including soups, baked goods, sauces, sandwich spreads, processed nuts, confectionery, cake icing and chewing gums.

Alternatives to  $TiO_2$  have been hard to find, particularly for its cost-effectiveness and proven stability in a variety of applications and resistance to processing stress.

At FiorioColori, we have been working on viable natural alternatives to  $TiO_2$  for some time, and have developed four solutions fully tested in selected applications.



#### TIO2 REPLACERS BY FIORIOCOLORI

#### **CLOUD WHITE** FIORIONAT PN344WHITE

Developped for application in chocolate and anhydrous creams. Powder, preservativefree. Excellent heat stability.



### **POLAR WHITE**

#### FIORIONAT PN342WHITE

Developped for application in sugar confectionery. Powder, preservative-free. Minimised airing during production.





#### **CRYSTAL WHITE** FIORIONAT PN353WHITE

Developped for application in glazes and hydrated creams. Powder, preservative-free. Matches the brightness of TiO  $_2$ 

#### **SWAN WHITE** FIORIONAT PN348WHITE

Developped for application in confectionery. Powder, preservative-free. Perfect for panned candies. V.ACT.AROME

Powder	Powder	Powder	Powder	FORMAT
Water / Oil dispersible	Water dispersible	Water dispersible	Water dispersible	SOLUBILITY
12 months	12 months	12 months	12 months	SHELF-LIFE
50 g/kg	50 g/kg	max 13,8 g/kg (in syrup)	15-25 g/kg	DOSAGE
E170 Calcium Carbonate, Natural Flavouring according to EU REG. 1169/2011	E170 Calcium Carbonate, Natural Flavouring according to EU REG. 1169/2011	E170 Calcium Carbonate, E341 (iii) Tricalcium Phosphate, Natural Flavouring According to EU REG. 1169/2011	Rice Starch, E473 Sucrose Esters of Fatty Acids, Natural Flavouring according to EU REG. 1169/2011	LABELLING
10:1	10:1	1.38:1	5:1	Yield vs E171
Chocolate and Anhydrous creams	Glazes and hydrated creams	Gummies Jelly Gums	Panned Candies Chewing Gum	APPLICATIONS
PN344WHITE	PN353WHITE	PN342WHITE	PN348WHITE	CODE
CLOUD WHITE	CRYSTAL WHITE	POLAR WHITE	SWAN WHITE	

## SUMMARY

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