



pure:flo[®]
bleaching earths



Mineral sample from Ochlocknee, Georgia

BLEACHING EARTHS

For Edible Oils

Pure-Flo® products offer edible oil refiners processing aids to produce clean, clear, quality oils. Pure-Flo is classified in three product families; Natural™, Supreme™, and Perform®. Our product families provide refiners with a range of performance options depending on oil type and process.

Pure-Flo products originate from a unique mineral deposit located near Ochlocknee, Georgia. The clay in this region features a large, highly active surface area well suited for the removal of color bodies and impurities from edible oils.

PROVEN & RELIABLE PERFORMANCE

- Efficient removal of chlorophyll and color bodies
- Fast filtration with long filtration cycles and less pressure build-up at cycle end
- Reduce free fatty acid rise and the associated risk of damaged oil



natural™

bleaching earths



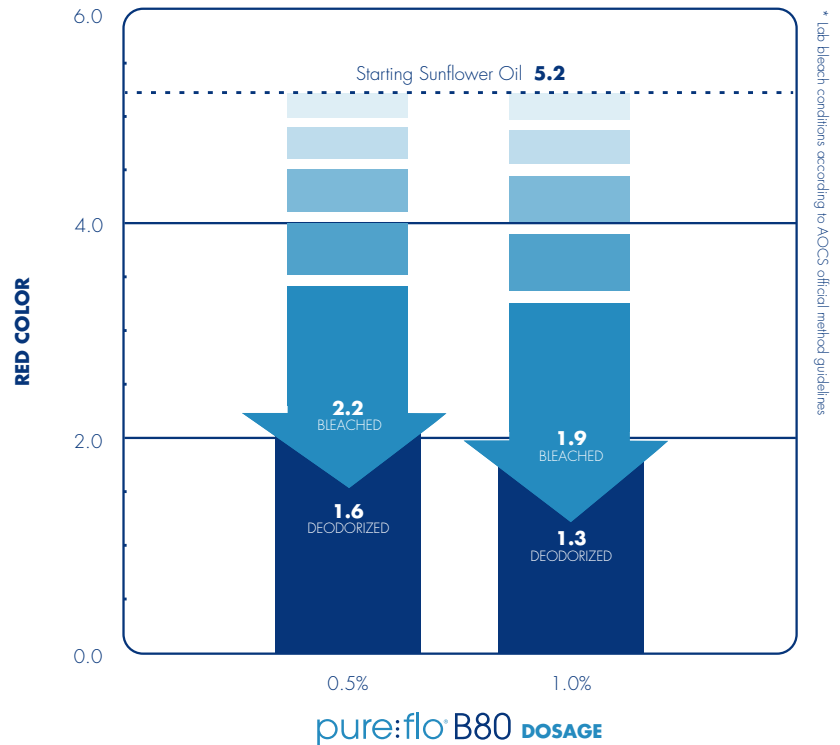
PRODUCTS

pure:flo® B80

Pure-Flo Natural products use our clay's inherent properties to remove impurities in oil without the use of chemical additives. Because these products are naturally active there is no danger of mineral acid carryover in finished oils.

A NATURAL APPROACH

This chart illustrates how the introduction of a typical dosage (between 0.5% and 1.0%) of Pure-Flo B-80 during the bleaching and deodorizing process can help achieve a significant reduction in red color in sunflower oil.





supreme™

bleaching earths

PRODUCTS

supreme:B81

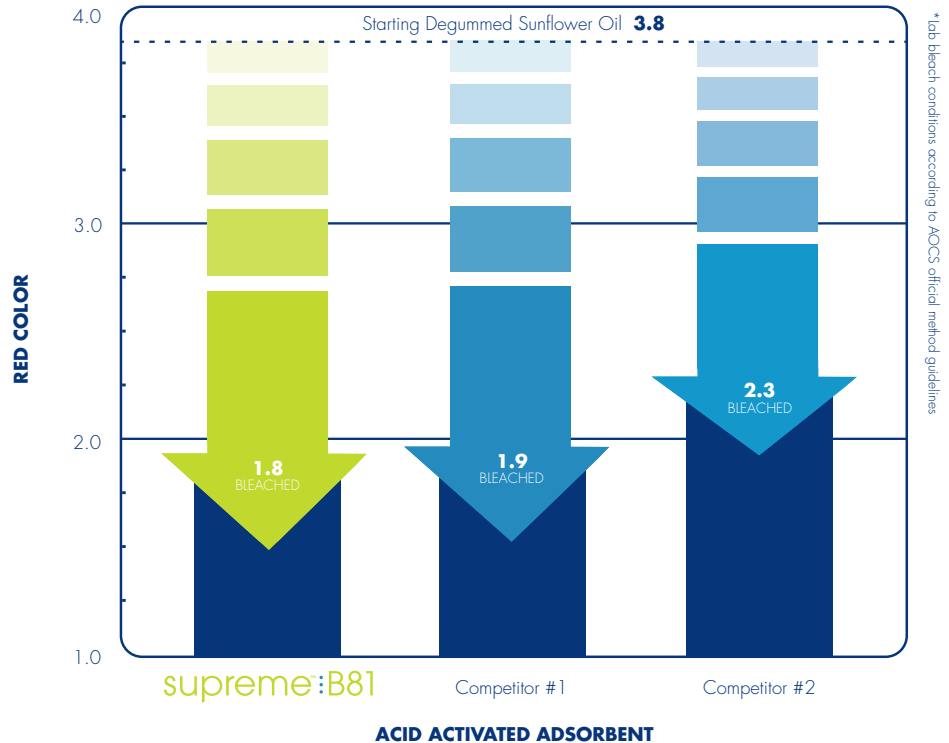
supreme:55

pro:active

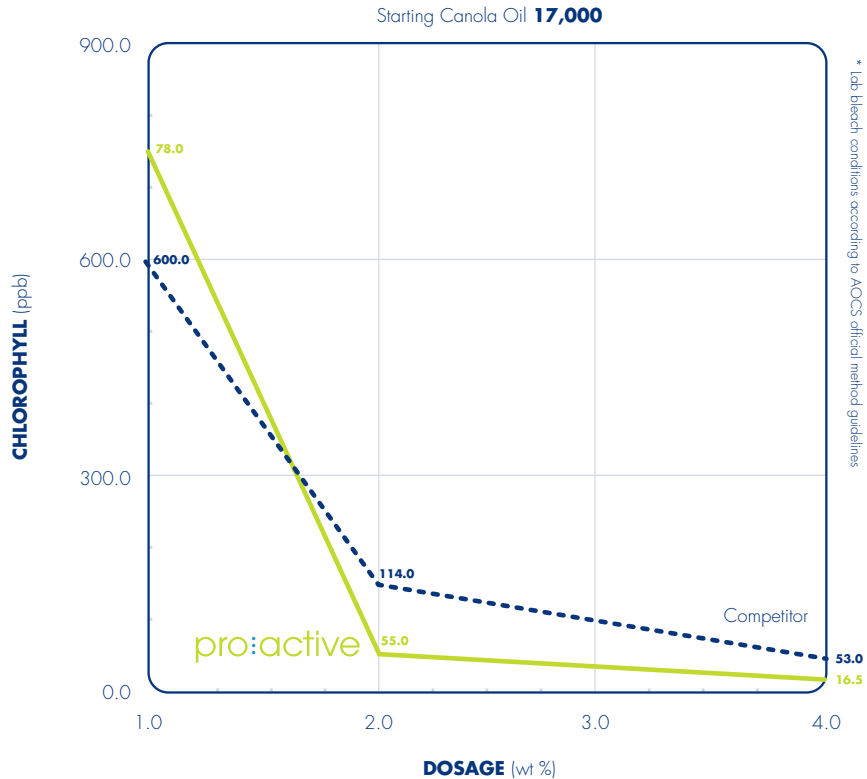
Pure-Flo Supreme products are surface activated to optimize clarification of difficult to bleach oils with high levels of chlorophyll and problematic color bodies.

BLEACHING POTENTIAL

This is an example of Supreme B-81's ability to remove red color from sunflower oil. In this instance, a typical dosage of 0.5% was used in the bleaching process.



CHLOROPHYLL REMOVAL



This chart compares Pro-Active's chlorophyll adsorption to a competitor at a variety of dosages.



perform[®]

bleaching earths

PRODUCTS

perform:4000

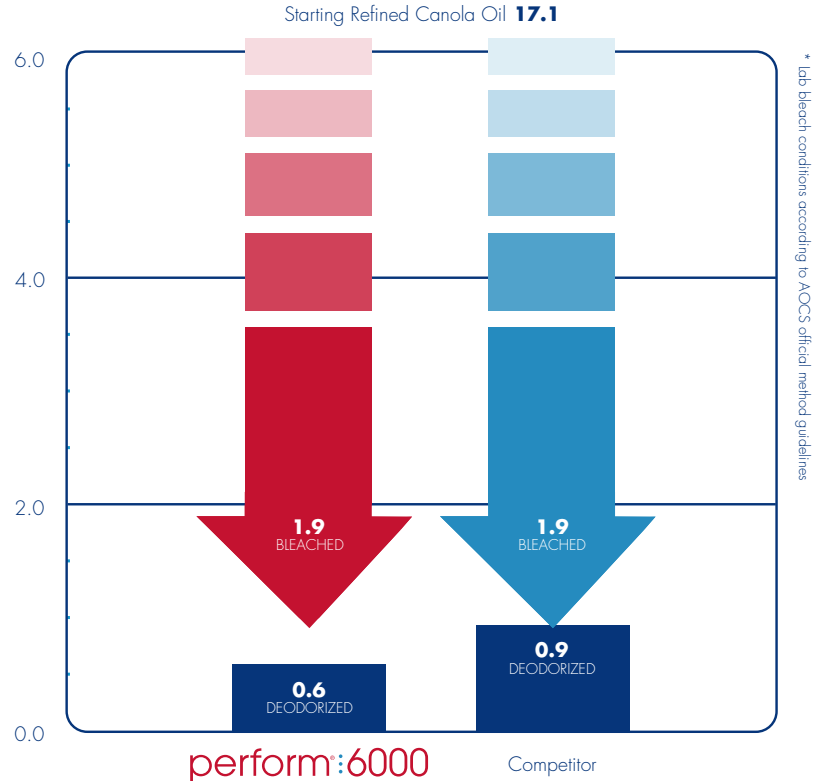
perform:5000

perform:6000

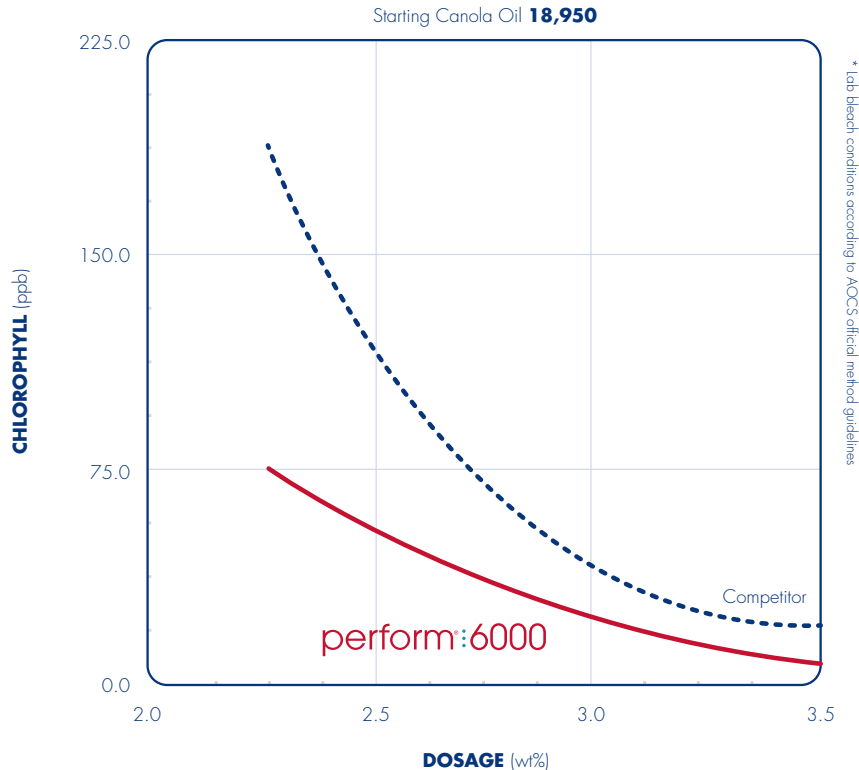
Our Perform products are highly activated to purify extremely difficult to bleach oils with the most challenging levels of chlorophyll and color bodies.

IMPROVED REDUCTION IN RED COLOR

In this lab test, Perform 6000 outperformed its competitor at 2.75% dosage while the competitive product was applied at 3.50%.



GREATER CHLOROPHYLL REMOVAL



This chart compares Perform 6000's chlorophyll adsorption to a competitor at a variety of dosages.

OIL COLOR VALUES



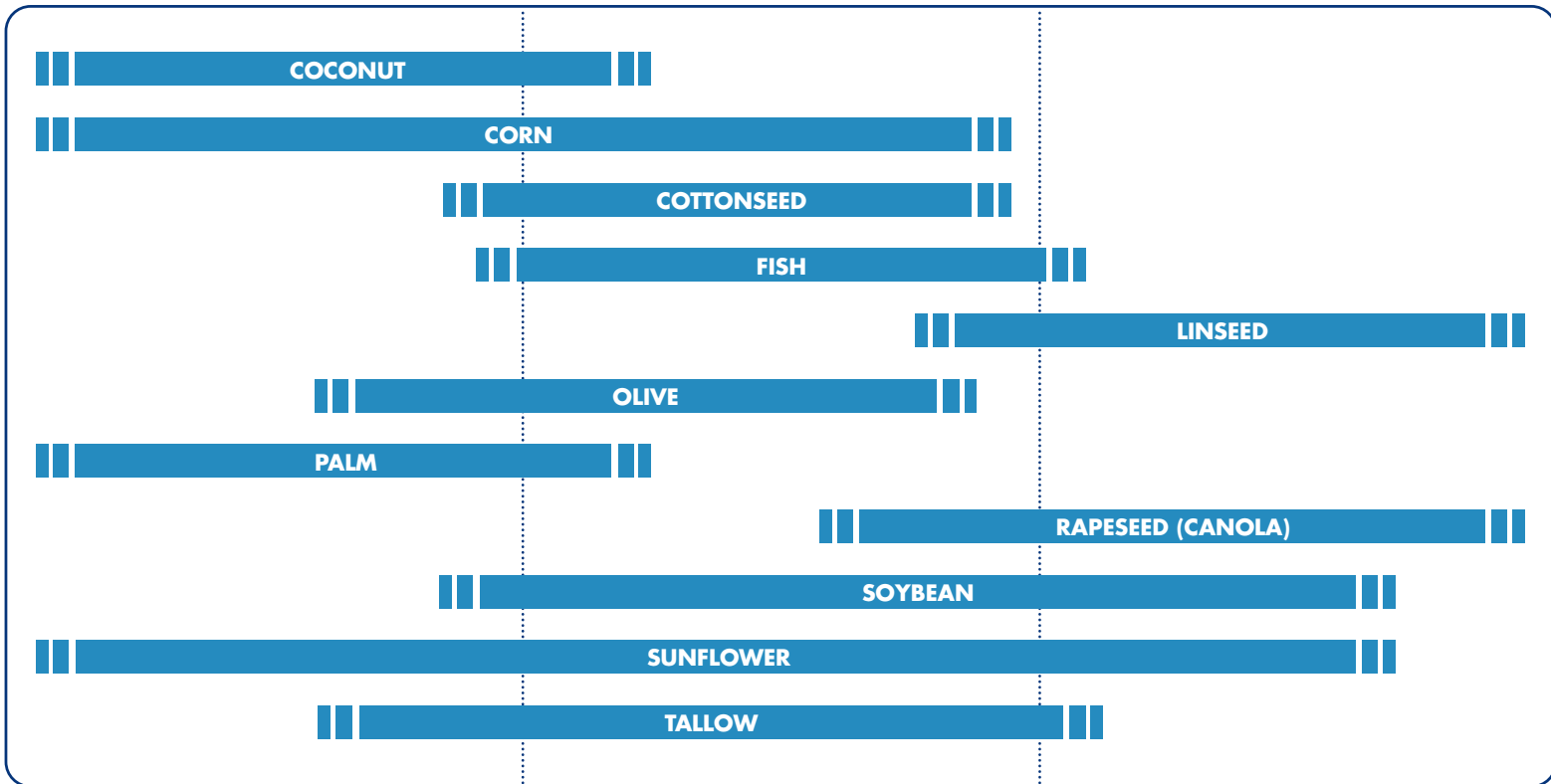
This chart provides a guideline for selecting Pure-Flo products based on oil type and their respective level of problematic colors requiring removal. Your sales representative can help you determine the best solution for your specific needs.



natural™

supreme™

perform®



Bleachability of Oil

PRODUCT OPTIONS

Typical Properties

This chart represents an overview of the Pure-Flo product line. Finished product characteristics may vary. Contact us if you require more detailed information.

B80 NATURAL	B81 SUPREME	55 SUPREME
15.50	15.50	15.50
7.2	4.4	3.0
43.0 lbs./ft ³ 688.0 g/l	43.0 lbs./ft ³ 688.0 g/l	46.0 lbs./ft ³ 736.0 g/l
83.00%	77.00%	46.00%

**PROACTIVE
SUPREME**

15.50

3.0

43.0 lbs./ft³

688.0 g/l

77.00%

**4000
PERFORM**

10.50

2.9

41.0 lbs./ft³

656.0 g/l

77.00%

**5000
PERFORM**

10.50

2.7

43.0 lbs./ft³

688.0 g/l

70.00%

**6000
PERFORM**

10.50

2.5

40.0 lbs./ft³

640.0 g/l

70.00%

Product

Free Moisture
wt. % @ 105°C

pH
(5% solids in D.I.H₂O)

Tamped Density

Particle Size
**U.S. Standard Sieve:
Through 325 Mesh
(Less than 45 Microns) wt.%**

QUALITY STANDARDS & CERTIFICATIONS



Our manufacturing process includes modern hygiene controls at every stage in the production of Pure-Flo products. Our controls follow the HACCP approach consistent with EU Regulations. The HACCP system used in our production process is certified by NSF,

an independent certification organization. Pure-Flo products are also certified both Kosher and Hallal for use in food processing.



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THE TRUSTED SOLUTION

Customers around the world count on Pure-Flo's
adsorbent properties to keep their products
meeting specifications.

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