

# COLOR

HARVESTED FROM NATURE





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# PERFECTED WITH SCIENCE

Mother Nature supplies the raw materials, DDW adds more than 150 years of coloring expertise. It is a brilliant partnership that offers a broad range of natural colors as well as the widest range of browns from the widest range of sources.

It is our mission to work with our customers to create the quality natural color solutions that result in beautiful, consumer-relevant products. That's why all of our products, people, and capabilities are solely focused on creating natural colors. Work with color experts who value your project as much as you do.







# ABBREVIATIONS

-  Heat Stability
-  Light Stability
-  pH Range
-  Liquid
-  Powder
- AP** Acid Proof
- EM** Emulsion
- OS** Oil Soluble
- OSS** Oil Soluble Suspension
- WD** Water Dispersible
- WS** Water Soluble

# CAPABILITIES

We are dedicated to providing a broad range of quality natural colors to the food and beverage industry that meet the needs of consumers and manufacturers alike. From ensuring traceability, to creating easy-to-use colors, to developing custom blends, we want to make sure we meet your color requirements. Look for the following icons on our products to easily find the one that best suits your needs!

-   
**TRACEABILITY**  
These products are traceable all the way back to the farmer, and in some cases, even further! Perfect for any farm-to-fork application.
-   
**CONVENIENCE**  
Need a simple add-and-go color without additional steps like heating or diluting? These colors are available in a wide range of formats and strengths for ease of use in any production process.
-   
**EXCELLENCE**  
We got our start cooking carbohydrates more than 150 years ago, giving us time to perfect our methods. These products are created with unmatched proficiency to be dependable, quality ingredients.
-   
**EXPERTISE**  
Want a customized look without the long development time? These products have been developed and tested to match common flavors in a variety of applications. Choose a color from our vast library of blends or customize your own!

# KEY

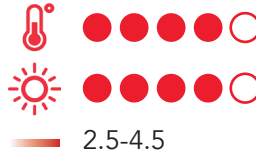






Amaize® Red is an anthocyanin color from non-GM purple corn that is grown, harvested, and gently water extracted in North America. It has great heat and light stability and provides a vibrant red hue at pH 2.5-4.5. As the pH increases, the hue shifts toward purple tones. Certified Organic liquid and powder are available.

This color works great to create reds in beverages, confections, fruit preps, and frozen novelties.



WS



WS



# AMAIZE®



Emulsitech® Paprika is an orange to red-orange natural color emulsion available in clear or cloudy forms. It does not require any heating, homogenization, or diluting, making it a simple add-and-go color for a wide variety of applications.

Emulsitech® Paprika works well for beverages, soups, seasonings, snacks, and other savory applications.



3.0-7.0



# EMULSITECH® PAPRIKA





# ANNATT

Annatto is a carotenoid color that ranges from yellow to red-orange in hue. It is a stable, economical natural color and comes in a wide variety of forms, making it suitable for use in almost any application. Certified Organic liquid and powder are available.

It is great for cheese and other dairy applications, as well as savory, seasoning, and snack applications.



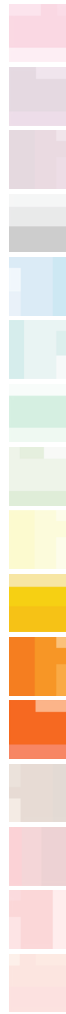
WS | OS | OSS | EM | AP



WS



4.0-7.0





Emulsitech® Beta-carotene is a yellow to yellow-orange natural color emulsion available in clear or cloudy forms. It does not require any additional heating, stirring, or homogenization, making it a simple add-and-go color. Organic Compliant Beta-carotene powder is available.

Emulsitech® Beta-carotene is ideal for beverages, confections, snacks, and savory applications



3.0-7.0



EM LOSS



WD



# EMULSITECH® BETA-CAROTENE



# COPPER CHLOROPHYLL

Copper chlorophyll and chlorophyllin provide vibrant, stable green colors from grass, which has transparency back to the field in which it was grown. Low dosage requirements lead to beautiful green shades with an effective cost-in-use.

These colors work great in confections, beverages, ice cream, baking, and alcohol.\*



 >2.5



WS | OS | OSS



WS

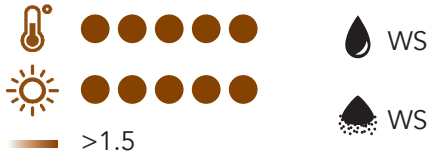


*\*In North America, copper chlorophyll[in] is currently only permitted in Canada and certain applications in the US.*



Caramel colors are created through the controlled heating of carbohydrates from natural sources, such as corn, wheat, and sugar cane, resulting in stable, reliable colors with excellent cost-in-use. We offer the widest range of class I-IV caramel colors in the industry to suit any need. Salt, beer, and acid stable, as well as Certified Organic versions are available.

Caramels work in just about any application from confections, savory, and baking to beverage concentrates and alcohol.



# CARAMEL







# NATURBROWN® INGREDIENTS

Naturbrown® ingredients provide the widest range of natural browns from the widest range of sources. They are created by simply cooking fruit or vegetable juice concentrates resulting in stable, golden to dark red-brown hues. Certified Organic liquid and powder options are available.

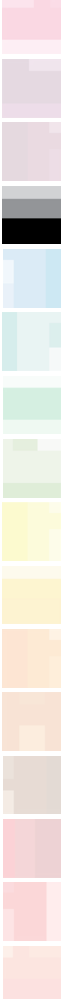
They work great for beverages, confections, baking, savory, seasoning, and snacks. Options include:

Apple | Onion | Savory Veg | Mirepoix | Tomato | Barley



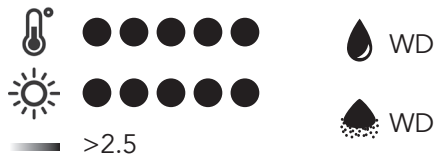
3.0-7.0





Vegetable black is produced from charred vegetable matter and further processed into an intense black liquid color that is easily pourable and dispersible in application. It is highly compatible with other natural colors to create custom blends or adjust color shade.

Vegetable black works well in confectionery, bakery, pet food, and ice cream applications.\*



*\*In North America, vegetable black is currently only permitted in Canada.*



# VEGETABLE BLACK

# BLENDS

Our library of standard blends offers ready-made color solutions for commonly used flavors. Each has been subjected to rigorous stability testing and is fully commercialized, meaning your blend is ready to go when you need it. Can't find the hue you need? That's ok, too. You can work directly with our applications scientists to create a custom natural color solution specific to your application. Contact us for more information on our vast library of blends or to develop your own!

























Forms and stability will vary by blend and application.





# COMPLETE RANGE

\*Organic available

OPTION						E#
 Amaize® Red*	WS	WS	●●●●○	●●●●○	2.5-4.5	E163
 Black/Purple Carrot	WS	WS	●●●●○	●●●●○	2.5-4.5	E163
 Carmine	WS	WS	●●●●●	●●●●●	>4.0	E120
 Elderberry	WS	WS	●●●●○	●●●●○	2.5-4.5	E163
 Red Radish	WS	WS	●●●●○	●●●●○	2.5-4.5	E163
 Emulsitech® Paprika	EM   OS	WD	●●●●●	●●●●●	3.0-7.0	E160c
 Annatto*	WS   OS   OSS   EM	WS	●●●●○	●●●●○	4.0-7.0	E160b
 Cochineal	WS   AP		●●●●●	●●●●●	>2.0	E120
 Emulsitech® Apocarotenal	OS   OSS   EM		●●●●○	●●●○○	3.5-7.0	E160e
 Emulsitech® Beta-carotene*	EM   OSS	EM	●●●●●	●●●●●	3.0-7.0	E161b
 Turmeric*	WS   OSS	WD	●●●●●	●●●○○	3.0-7.0	E100
 Copper Chlorophyll[in]	WS   OS   OSS	WS	●●●●○	●●●●○	4.5-7.0	E141[i-ii]
 Spirulina*	WS	WS	●●○○○	●●○○○	4.0-7.0	N/A
 Grape Juice	WS	WS	●●●○○	●●●○○	2.5-3.5	E163
 Purple Sweet Potato	WS	WS	●●●●○	●●●●○	2.5-4.5	E163
 Red Beet	WS	WS	●●○○○	●●○○○	4.0-7.0	E162
 Naturbrown® Ingredients*	WS	WS	●●●●●	●●●●●	3.0-7.0	N/A
 Caramel Color (Class I-IV)*	WS	WS	●●●●●	●●●●●	>1.5	E150a-d
 Carbon Black	WD	WD	●●●●●	●●●●●	>2.5	E153

# GET IN TOUCH!

Interested in a sample or have any questions? Email us at [info@ddwcolor.com](mailto:info@ddwcolor.com) or contact us at any of our locations!

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# LOCATIONS