

TINT COLOR • 02 • PREMIUM

● AVAILABLE

TintBlue E40

Carrier free, high purity phycocyanin from Spirulina platensis. 2.5× the active content of E18. The base for encapsulation and high value formulations.

01 • PRODUCT DESCRIPTION

TintBlue E40 is a high purity, carrier free spray dried phycocyanin extract from Spirulina platensis, standardized to a minimum color value of 400.0 CU with a minimum C-phycocyanin content of 60% w/w. As the premium grade in the TintBlue range, E40 delivers more than twice the pigment concentration of E18, enabling maximum color intensity at significantly lower inclusion rates. The absence of carriers offers complete formulation freedom; preferred for encapsulation processes, high value applications, and carrier free labels. Completely water soluble.

02 • TECHNICAL SPECIFICATIONS

APPEARANCE	Deep blue fine powder	PARTICLE SIZE	≤ 200 µm
ODOR	Mild · characteristic	HEAVY METALS (PB)	≤ 2 ppm
COLOR VALUE	≥ 400.0 CU @ 620 nm	ARSENIC (AS)	≤ 1 ppm
PURITY (A620/A280)	≥ 0.70	TOTAL PLATE COUNT	≤ 10,000 CFU/g
SOLUBILITY	Water soluble	YEAST & MOLD	≤ 100 CFU/g
MOISTURE	≤ 5.0% w/w	SALMONELLA	Absent / 25 g
PH (1% AQ.)	6.0 to 8.0	E. COLI	Absent / 1 g

COLOR RETENTION

88%

12 mo · pH 4.5 · encapsulated · ambient

ACTIVE VS E18

2.5×

C-phyco cyanin per gram

INCLUSION

0.01 to 0.10%

w/w in formulation

03 • PERFORMANCE & USE

TintBlue E40 is suitable across all market segments: food, beverages, nutraceuticals, and cosmetics, where high color intensity or minimal inclusion rates are required. Its carrier free composition makes it the ideal base for encapsulation and microencapsulation processes, enabling manufacturers to select their own excipient system. Equivalent color intensity to E18 grades is achieved at approximately one third the inclusion rate.

04 • STABILITY

As a high purity, carrier free concentrate, TintBlue E40 requires careful handling. Color and pigment integrity are maintained at pH 4.5 to 7.5. More sensitive to hygroscopic conditions than carrier-based grades (reseal containers immediately after use). Protect from UV light and heat above 60°C. Refrigerated storage (2 to 8°C) is recommended for long-term inventory.

05 • PACKAGING

PACK SIZES	0.5 · 1 · 5 kg
FORMAT	Sealed food grade bags
HS CODE	3203.00
MOQ	Per agreement

06 • STORAGE

CONDITIONS	≤ 20°C · dry · dark
LONG TERM	2 to 8°C refrigerated
SHELF LIFE	24 mo unopened
AFTER OPENING	Reseal immediately · 3 mo

07 • QUALITY & DOCS

ISO certified quality management. CoA, SDS, and PIS available per lot. Allergen free, non GMO verified, vegan. Suitable for food, nutra, and cosmetic applications. Halal and Kosher available upon request.

08 • REGULATORY

EU 1333/2008: spirulina extract framework. US FDA 21 CFR 73.530: color additive exempt from certification. Mercosur / LatAm: local natural colorant frameworks. Region specific dossiers on request.