

CAB-O-JET® 450C (PB 15:4)

CAB-O-JET 450C, a **new** unique pigment dispersion based on Cabot's latest surface modification technology, suited for both thermal and piezo inkjet printheads. CAB-O-JET 450C **Cyan** pigment dispersion offers great formulation flexibility for the inkjet ink developer, enabling **outstanding** step-change performance on **plain** paper in the areas of:

- Paper Independence
- Optical Density
- Print Durability
- Intercolor Bleed
- Lightfastness
- Waterfastness

Other products based on this new technology:

- ~ CAB-O-JET 470Y (PY 74)
- ~ CAB-O-JET 480V (PV 19RS)
- ~ CAB-O-JET 400 (Carbon Black)
- ~ CAB-O-JET 465M (PR 122)

Surface Modification Technology

Cabot's proprietary surface modification technology allows for the attachment of functional groups to the surface of the pigment particle. This attachment technique results in highly reliable and stable dispersions. As the stabilizing groups are attached to the surface of the pigment particle, there are no polymers or surfactants in the bulk of the dispersion that can adversely effect properties such as viscosity and surface tension or contribute to foaming and kogation.

This technology also allows for tight control of the pigment surface chemistry, which results in consistent, high "on paper" performance. Properties such as optical density, edge acuity, intercolor bleed, dry time, mottle etc. are controlled by the chemistry of the pigment and the ink formulation in which it is incorporated.

Cabot Inkjet Colorants

Cabot Inkjet Colorants leverages decades of fine particle and surface modification expertise from Cabot Corporation, and has been supplying high performance aqueous pigment dispersions to the inkjet industry since 1996. Cabot Inkjet Colorants will continually bring new products to market designed to meet the ever increasing needs of inkjet printing.

For additional product information, samples or to be connected with the account representative for your region; please visit www.cabot-corp/inkjet or email: inkjet@cabot-corp.com

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Typical Physical Properties

Appearance	Cyan Liquid
Pigment	PB 15:4
Viscosity ¹	2.2 cP
pH ²	9.5
Surface Tension ³	71 dynes/cm
Solids	15% pigment in water
Stability ⁴	
Heat:	>6 weeks at 60° C
Room Temperature:	>1 year
Particle Size ⁵	
Mean:	0.115 microns
100%:	<0.6 microns

¹ Brookfield Rotational Viscometer, ² At time of packaging. No buffers are added, therefore results may vary upon delivery. ³ Kruss Tensionmete, ⁴ No change in any physical property,

⁵ Nanotracc NPA150 Particle Analyzer