



## CAB-O-JET® 1027R RED COLORANT DATA SHEET

CAB-O-JET® 1027R red colorant is an aqueous pigment dispersion.

### Applications

For use in inkjet PHOTO inks and other high performance aqueous based systems. Ideally suited for both thermal and piezo printhead technologies.

### Product Features

A unique pigment dispersion created using Cabot's unique patented surface modification technology. No surfactants, dispersion aids, or polymers are used to stabilize the dispersion. This product is excellent for expanding the color range of PHOTOS.

### Print Performance

When printed, images are lightfast with high optical density. Dispersion can be formulated into ink that provides sharp image definition with no wicking, feathering or mottle and minimal color bleed.

### Typical Dispersion Properties

An infinitely stable dispersion of ultrafine red pigment that is compatible with a variety of ink components and easy to incorporate into aqueous systems.

### Surface Modification Technology

Cabot's proprietary surface modification technology for attaching functional groups to the surface of pigment particles results in highly reliable and stable dispersions. Because 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 control of the pigment surface chemistry. This control 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 particle and the ink formulation in which it is incorporated.

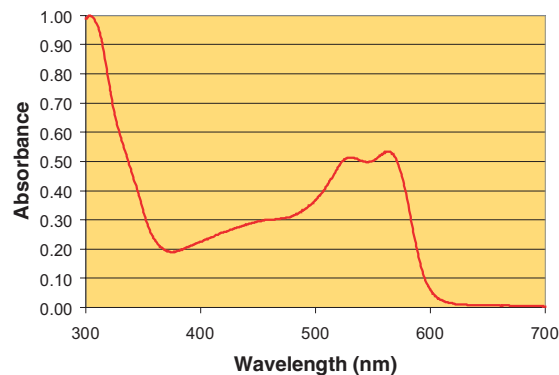
### Typical Physical Properties

<b>Appearance</b>	Red Liquid
<b>Surface</b>	Sulphonated
<b>Functionality</b>	
<b>Viscosity</b> <sup>1</sup>	1.6 cP
<b>pH</b>	8.5
<b>Surface Tension</b> <sup>2</sup>	68 dynes/cm
<b>Solids</b>	10% pigment in water
<b>Stability</b> <sup>3</sup>	
Heat:	>6 weeks at 60°C
Room temperature:	>1 year
<b>Particle Size</b> <sup>4</sup>	
Mean:	0.12 microns
100%:	<0.6 microns

<sup>1</sup>Brookfield Rotational Viscometer, <sup>2</sup>CSC DuNouy Tensiometer, <sup>3</sup>No change in any physical property, <sup>4</sup>Microtrac® UPA 150 Particle Analyzer

The data in this brochure in no way constitutes a specification or certification of any kind, but simply represents values based on analyses of typical samples from production of these products.

### UV-Visible spectrum of CAB-O-JET® 1027R using Pigment Red 177



[WWW.CABOT-CORP.COM/INKJET](http://WWW.CABOT-CORP.COM/INKJET)

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## PRODUCT REGISTRATION

**United States:** TSCA (Toxic Substance Control Act inventory): All components are listed on or exempt from listing under the TSCA.

**Europe (EU):** EINECS (European Inventory of Existing Commercial Chemical Substances): All components are listed on or exempt under EINECS or have been notified to ELINCS.

**Canada:** CEPA (Canadian Environmental Protection Act): All components are listed on the DSL or NDSL or are exempt from listing under the CEPA.

**Australia:** AICS (Australian Inventory of Chemical Substances): All components are listed on or exempt.

**China:** Chinese Inventory: All components are listed on or exempt in the Chinese Inventory.

## Orders, Samples and Additional Product Information:

### NORTH AMERICA

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Billerica, MA 01821  
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**Telephone: 978-663-3455**

**Facsimile: 978-670-6149**

### EUROPE

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**Cabot Carbon Ltd.**

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Stanlow, Ellesmere Port  
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England

**Telephone: 44-151-350-1465**

**Facsimile: 44-151-350-1462**

### ASIA / PACIFIC

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**Cabot Specialty Chemicals Inc.**

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Wilayah Persekutuan, Malaysia

**Telephone: 60-3 2164-8352**

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3-1-15 Shiba, Minatu-ku  
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**Facsimile: 81-3 3457 7288**

### SOUTH AMERICA

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**Cabot Brasil Industria e Comercio Ltda.**

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