

CAB-O-JET® 1027R (PR 177)

 Inkjet Colorants

CAB-O-JET 1027R, a unique pigment dispersion based on Cabot's patented surface modification technology, suited for both thermal and piezo inkjet printheads. CAB-O-JET 1027R Red pigment dispersion offers great formulation flexibility for the inkjet ink developer and is ideal for expanding the color range of photo printing on glossy paper. CAB-O-JET 1027R will perform well in the areas of:

- Color Strength
- Intercolor Bleed
- Waterfastness
- Lightfastness

Typical Physical Properties	
Appearance	Red Liquid
Pigment	PR 177
Viscosity ¹	1.6 cP
pH ²	8.5
Surface Tension ³	70 dynes/cm
Solids	10% pigment in water
Stability ⁴	
Heat:	>6 weeks at 60° C
Room Temperature:	>1 year
Particle Size ⁵	
Mean:	0.125 microns
100%:	<0.60 microns

¹ Brookfield Rotational Viscometer, ² At time of packaging. No buffers are added, therefore results may vary upon delivery. ³ Kruss Tensionmeter, ⁴ No change in any physical property, ⁵ Nanotrac NPA150 Particle Analyzer

Surface Modification Technology

Cabot's proprietary surface modification technology allows for the direct attachment of functional groups to the surface of the pigment particle. This attachment technique 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 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 are committed to the industry and 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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