

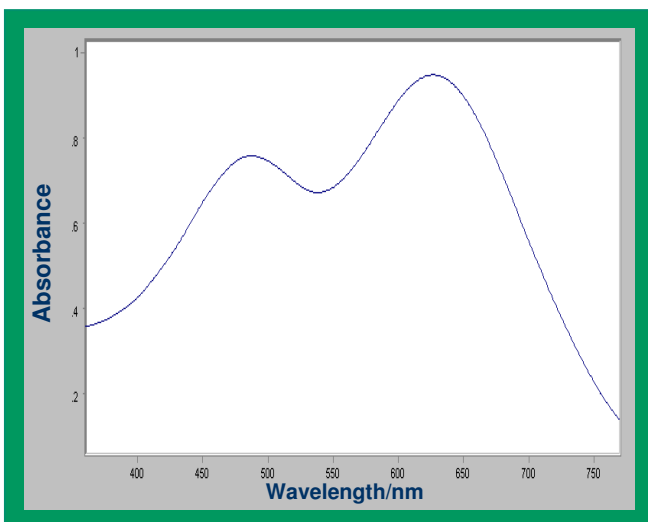
Pro-Jet™ Black 168 Liquid

▶ **A multipurpose black dye-based liquid for a wide range of aqueous inkjet applications**

- ▶ Strong optical density for a range of applications
- ▶ Good light and water fastness
- ▶ Highly purified to ensure low salt and metal content
- ▶ Good compatibility with a range of ink formulants
- ▶ Internationally registered



Typical Properties	
Chemical Class	Direct black azo dye
Strength	Liquid product contains nominally 10% active colorant
Maximum ink loading	5%
pH Stability Range	7.5 - 9.5



Spectral Properties (in solution)	
Solution OD:	0.90 - 0.95 (@ 200 ppm)
λ max:	ca 626 - 634 nm
Physical Analysis	
Filterability:	Passes 0.45 micron
Surface Tension at 25°C:	>/ = 50 dynes cm ⁻¹
Chemical Analysis	
Metals	Fe < 30 ppm
	Ca < 25 ppm
Salts	Cl < 150 ppm
	SO ₄ < 300 ppm

Related Dye-Based Liquids

Other Pro-Jet products in this range

- ▶ Pro-Jet™ Magenta 1
- ▶ Pro-Jet™ Magenta 3B-OA
- ▶ Pro-Jet™ Violet 631

- ▶ Pro-Jet™ Yellow 1
- ▶ Pro-Jet™ Yellow 1G
- ▶ Pro-Jet™ Yellow 492

- ▶ Pro-Jet™ Cyan 1
- ▶ Pro-Jet™ Fast Black 1

Other Pro-Jet Black products

- ▶ Pro-Jet™ Fast Black 1

- ▶ Pro-Jet™ Fast Black 2

- ▶ Pro-Jet™ Black CBA

Print Properties	Plain Paper	Photo Paper (Swellable)	Photo Paper (Microporous)
<i>ROD</i>	1.11	2.30	2.01
<i>L*</i>	33.8	4.7	9.3
<i>a*</i>	-2.4	-2.2	-1.8
<i>b*</i>	-4.2	-1.6	-6.4
<i>C</i>	4.9	2.7	-6.7
<i>Hue</i>	240	216	254
<i>Light fastness (delta E)</i>	n/a	24	36

Wet Fastness (Plain Paper)

Rated 6/10 on arbitrary scale where 1 = severe bleed and 10 = no bleed.

Prints prepared using a generic ink formulation containing 3.5% dye and having an ink pH of 8-9.

Spectral measurements carried out with Gretag Macbeth Spectrolino with D65 illumination and 2 degree observer.

Fade carried out using an Atlas Ci5000 Weatherometer for 100 hours at 70% density.

Product Registration

PRO-JET Fast Black 1 Liquid is notified under the applicable toxic/regulatory statutes in EU, USA, Canada, Australia, Japan, Korea, China and Switzerland. Please check full product registration with your local FFIC sales manager.

Product Packaging

This product is available in 20kg and 200kg packages as standard and must be kept frost-free.

Product Safety

Please refer to the product MSDS which is available in most major European languages, in both EU and US format.

For further information on Pro-Jet™ dye-based liquids please contact:

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September 2011

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