

## Product Specifications

Product Name	NS NEW CERVO YELLOW
General Name	Offset Printing Ink
Distributor Name Address	Tokyo Printing Ink Corporation, U.S.A. 18710 S. Wilmington Avenue, Suite 101, Rancho Dominguez, CA, U.S.A. Phone: 310-604-0495 Fax: 310-605-0961
Manufacturer Name Address	Tokyo Printing Ink Manufacturing Company Limited 2-7-15 Tabata-Shinmachi, Kita-Ku, Tokyo, Japan Phone: 81-3-5692-7314 Fax: 81-3-5692-7341

Packing Style	Net Weight	1-kg
	Container	Metal Tin
Lot Number	○○○□□□, Indicating Order Number(○) and Manufacturing Number(□)	

Quality Standards			
Item	Standard Value	Dimension	Test Instrument and Method
Color	L* : 86.65 a* : -11.82 b* : 108.30  $\Delta E \leq 3.0$		Spectrophotometer (X-Rite 938), D50, 2deg.
Density	$1.15 \pm 0.05$		Densitometer (Screen DM-800)
Specific gravity	$1.01 \pm 0.04$	g/cc	Weight/Volume, at 25°C
Drying Time	$16.0 \pm 1.5$	hr	C-Type Drying Recorder, on Parchment Paper, at 25°C and 60% Humidity
Emulsification	$30 \pm 10$	%	Duke Tester, Maximum Emulsified Water, at 8-min.
Gloss	$79.0 \pm 5.0$		Gloss Meter (Nihon-Denshoku), at 60 Degree
Light Fastness	12	hr	Weatherometer (Suga-Shikenki), Withstanding Exposure hour
Tack	$6.5 \pm 0.4$		Inkometer (Swing Albert), 400rpm, 30°C, at 1-min.
Viscosity	$260 \pm 30$	poise	L-Type Viscometer (LaRay), at 25°C
Flow	$38.5 \pm 1.0$	mm	Spreadometer (Toyo-Seiki), Diameter, 25°C, at 1-min.

For Color, Density, Gloss, and Light Fastness, printed samples made by RI Tester are used.  
Printed samples are made with art paper, two-cut roll, 0.125cc ink charge.

## Product Specifications

Product Name	NS NEW CERVO MAGENTA
General Name	Offset Printing Ink
Distributor Name Address	Tokyo Printing Ink Corporation, U.S.A. 18710 S. Wilmington Avenue, Suite 101, Rancho Dominguez, CA, U.S.A. Phone: 310-604-0495 Fax: 310-605-0961
Manufacturer Name Address	Tokyo Printing Ink Manufacturing Company Limited 2-7-15 Tabata-Shinmachi, Kita-Ku, Tokyo, Japan Phone: 81-3-5692-7314 Fax: 81-3-5692-7341

Packing Style	Net Weight	1-kg
	Container	Metal Tin
Lot Number	○○○□□□□, Indicating Order Number(○) and Manufacturing Number(□)	

## Quality Standards

Item	Standard Value	Dimension	Test Instrument and Method
Color	L* : 51.77 a* : -24.76 b* : -52.42  $\Delta E \leq 3.0$		Spectrophotometer (X-Rite 938), D50, 2deg.
Density	$2.00 \pm 0.08$		Densitometer (Screen DM-800)
Specific gravity	$1.02 \pm 0.04$	g/cc	Weight/Volume, at 25°C
Drying Time	$16.0 \pm 1.5$	hr	C-Type Drying Recorder, on Parchment Paper, at 25°C and 60% Humidity
Emulsification	$45 \pm 10$	%	Duke Tester, Maximum Emulsified Water, at 8-min.
Gloss	$84.0 \pm 5.0$		Gloss Meter (Nihon-Denshoku), at 60 Degree
Light Fastness	48	hr	Weatherometer (Suga-Shikenki), Withstanding Exposure hour
Tack	$7.5 \pm 0.4$		Inkometer (Swing Albert), 400rpm, 30°C, at 1-min.
Viscosity	$350 \pm 40$	poise	L-Type Viscometer (LaRay), at 25°C
Flow	$37.0 \pm 1.0$	mm	Spreadometer (Toyo-Seiki), Diameter, 25°C, at 1-min.

For Color, Density, Gloss, and Light Fastness, printed samples made by RI Tester are used.

Printed samples are made with art paper, two-cut roll, 0.125cc ink charge.

9/21/2005

## Product Specifications

Product Name	NS NEW CERVO CYAN
General Name	Offset Printing Ink
Distributor Name Address	Tokyo Printing Ink Corporation, U.S.A. 18710 S. Wilmington Avenue, Suite 101, Rancho Dominguez, CA, U.S.A. Phone: 310-604-0495 Fax: 310-605-0961
Manufacturer Name Address	Tokyo Printing Ink Manufacturing Company Limited 2-7-15 Tabata-Shinmachi, Kita-Ku, Tokyo, Japan Phone: 81-3-5692-7314 Fax: 81-3-5692-7341

Packing Style	Net Weight	1-kg
	Container	Metal Tin
Lot Number	○○○○□□□, Indicating Order Number(○) and Manufacturing Number(□)	

Quality Standards			
Item	Standard Value	Dimension	Test Instrument and Method
Color	L* : 41.78 a* : 78.59 b* : 4.30  $\Delta E \leq 2.0$		Spectrophotometer (X-Rite 938), D50, 2deg.
Density	$1.93 \pm 0.10$		Densitometer (Screen DM-800)
Specific gravity	$1.02 \pm 0.04$	g/cc	Weight/Volume, at 25°C
Drying Time	$16.0 \pm 1.5$	hr	C-Type Drying Recorder, on Parchment Paper, at 25°C and 60% Humidity
Emulsification	$40 \pm 10$	%	Duke Tester, Maximum Emulsified Water, at 8-min.
Gloss	$73.0 \pm 5.0$		Gloss Meter (Nihon-Denshoku), at 60 Degree
Light Fastness	> 60	hr	Weatherometer (Suga-Shikenki), Withstanding Exposure hour
Tack	$8.0 \pm 0.4$		Inkometer (Swing Albert), 400rpm, 30°C, at 1-min.
Viscosity	$350 \pm 40$	poise	L-Type Viscometer (LaRay), at 25°C

Flow	37.5 ± 1.0	mm	Spreadometer (Toyo-Seiki), Diameter, 25°C, at 1-min.
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For Color, Density, Gloss, and Light Fastness, printed samples made by RI Tester are used.  
Printed samples are made with art paper, two-cut roll, 0.125cc ink charge.

9/21/2005

## Product Specifications

Product Name	NS NEW CERVO BLACK
General Name	Offset Printing Ink
Distributor Name Address	Tokyo Printing Ink Corporation, U.S.A. 18710 S. Wilmington Avenue, Suite 101, Rancho Dominguez, CA, U.S.A. Phone: 310-604-0495 Fax: 310-605-0961
Manufacturer Name Address	Tokyo Printing Ink Manufacturing Company Limited 2-7-15 Tabata-Shinmachi, Kita-Ku, Tokyo, Japan Phone: 81-3-5692-7314 Fax: 81-3-5692-7341

Packing Style	Net Weight	1-kg
	Container	Metal Tin
Lot Number	○○○○□□□<, Indicating Order Number(○) and Manufacturing Number(□)	

Quality Standards			
Item	Standard Value	Dimension	Test Instrument and Method
Color	L* : 4.33 a* : 0.18 b* : -0.34  ΔE ≤1.0		Spectrophotometer (X-Rite 938), D50, 2deg.
Density	2.25 ± 0.10		Densitometer (Screen DM-800)
Specific gravity	1.06 ± 0.04	g/cc	Weight/Volume, at 25°C
Drying Time	16.0 ± 1.5	hr	C-Type Drying Recorder, on Parchment Paper, at 25°C and 60% Humidity
Emulsification	50 ± 15	%	Duke Tester, Maximum Emulsified Water, at 8-min.
Gloss	91.8 ± 5.0		Gloss Meter (Nihon-Denshoku), at 60 Degree
Light Fastness	> 60	hr	Weatherometer (Suga-Shikenki), Withstanding Exposure hour
Tack	8.0 ± 0.4		Inkometer (Swing Albert), 400rpm, 30°C, at 1-min.

Viscosity	280 ± 30	poise	L-Type Viscometer (LaRay), at 25°C
Flow	36.0 ± 1.0	mm	Spreadometer (Toyo-Seiki), Diameter, 25°C, at 1-min.

For Color, Density, Gloss, and Light Fastness, printed samples made by RI Tester are used.  
Printed samples are made with art paper, two-cut roll, 0.125cc ink charge.