



ISO 9001, ISO 14001 CERTIFIED

ORIENT

chemical

PRODUCT LIST

**SOLVENT DYESTUFF
PETROLEUM ADDITIVE
STATIONERY INK
PLOTTER INK**



오리엔트化學株式會社

ORIENT CHEMICAL (KOREA), LTD.

ORIENT COLORS

(Solvent Dyestuff)

ORIENT DYESTUFF作为有机再溶解的染料, 易溶于乙醇, BTX, 酮, 酯, 油及石蜡等一般有机溶剂, 具有鲜明色彩的优点。这些染料的化学结构是氮, 氮金属络合盐, 蒽醌及氮杂苯类的系列, 具有多种用途。下图很清楚地对全体 ORIENT DUESTUFF的每种产品表示其用途。

ORIENT DYESTUFF as Organic Solvent Soluble dyes have a high Solubility and brilliant colors shade in wide range of organic solvent, especially Alcohol, BTX, Ketone, Ether, Oil, Wax. With chemical structures of Azo, Azo-metal Complex, Anthraquinone and Azine, They have a variety of application. The application table below will help you to understand each applications of the whole ORIENT DYESTUFF.

	ORIMAX COLORS	ORIKO COLORS	ORIKOSOL COLORS	MAXOL COLORS	NIGROSINE	PLAMAX COLORS
Transparent Plastic(PS, PP, ABS, MA etc)	○	○				○
Engineering Plastic (PA, PC, etc)		○				○
Paint	○	○	○			
Ball Point Pen Ink	○	○			○	
Permanent Ink	○	○			○	
Coating Ink	○	○	○			
Gravure Ink	○	○	○			
Printer Ribbon Ink	○				○	
Shoe Polish Cream	○				○	
Leather		○	○		○	
Petroleum				○		
Smoke Color	○			○		

ORIENT COLORS

(Solvent Dyestuff)

ORIMAX COLORS

(Oil & Fat Soluble Dye)

YELLOW GGS	<i>Solvent Yellow 56</i>
YELLOW 3G	<i>Solvent Yellow 16</i>
YELLOW 105	<i>Sml Solvent Yellow 30</i>
ORANGE PS	<i>Solvent Yellow 14</i>
ORANGE PR	<i>Mixed</i>
ORANGE 201	<i>Sml Solvent Orange 22</i>
PINK 139	<i>Solvent Red 49</i>
RED 3R	<i>Solvent Red 23</i>
RED RR	<i>Solvent Red 24</i>
RED 308	<i>Solvent Red 18</i>
RED 5B	<i>Solvent Red 27</i>
RED 5R	<i>Mixed</i>
BROWN GR	<i>Mixed</i>
BROWN BB	<i>Solvent Red 3</i>
BROWN BF	<i>Solvent Red 3</i>
GREEN 151	<i>Mixed</i>
BLUE IIN	<i>Solvent Blue 35</i>
BLUE 603	<i>Solvent Blue 5</i>
BLACK BPLK	<i>Solvent Black 7</i>
BLACK BSK	<i>Solvent Black 7</i>
BLACK MX	<i>Solvent Black 3</i>

ORIMAX COLORS作为溶于各种溶剂, 合成树脂, 油脂等染料, 色彩鲜明, 发色性优良, 因而是广泛使用的油性染料。

ORIMAX COLORS are dyestuffs having excellent solubility in a variety of solvents, synthetic resins and oils. Orimax colors keep their brilliant shade in varieties of application.

■用途

塑 料: 苯乙烯, 丙烯酸类树脂, 硬塑料, 醋酸盐, 尿素树脂等
 涂 料: 油性着色剂涂料, 橡胶用途料, 木工涂料等
 印刷墨水: 石油墨水, 凹版印刷墨水等
 油脂产品: 鞋油, 造盐墨水等
 石油产品: 汽油, 润滑油, 脂
 皮革产品: 皮革染色
 办公用品: 毛毡墨水, 圆珠笔墨水等
 发烟产品: 各种烟幕弹, 信号弹, 发烟色素等
 其 他: 室内装饰品, 胶合板, 壁纸等的染色

■APPLICATION

- Plastics: Transparent Resins (polystyrene, acrylic resin, rigid pvc, cellulose acetate, urea-formaldehyde resin)
- Paint, Oil Stains, Baking Enamels, Rubber Stains
- Printing Inks: Aniline Ink, Gravure Ink, Metalized Foil Ink
- Oil & Fat products: Shoe Polishes, Floor Polishes, Rapid Dyeing Inks for Leather, Candles, Soaps
- Petroleum products: Gasoline, Lubricant, Grease
- Leather Products: Coloring Leather
- Office Requisites: Felt Tip pen Ink, Ball Point Pen Ink, Carbon Paper, Typewriter Ribbon, Jet Print Ink
- Industrial Inks: Marking Ink, Coding Ink, Stamping Ink, Stenciling Ink
- Smoke Colors

ORIMAX COLORS

APPLICATION

Trade Name	Synthetic Resin						Felt Pen Ink	Petroleum Products	Ball Point Pen Ink	Aluminium Coloring	Shoes Cream	Rapid Dyeing Ink	Gravure Ink	Rubber Stasis	Color Smoke
	Urea	Melamine	PolyEster	Epoxy	Vinyl Chloride	Styrol									
Yellow GGS	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			☐		☐
Yellow 3G	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			☐		
Yellow 105	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐					
Orange PS	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			☐
Orange PR	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		☐			☐
Orange 201	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			☐		
Pink 139			☐				☐						☐		
Red 3R	☐	☐	☐	☐	☐	☐	☐			☐	☐		☐		
Red RR	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐			☐
Red 308	☐	☐	☐	☐	☐	☐	☐	☐					☐		
Red 5B	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐		
Red 5R	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐			☐
Red MR	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐			☐
Brown BB	☐	☐	☐		☐	☐				☐	☐	☐	☐		
Brown BF	☐	☐	☐		☐	☐				☐	☐	☐	☐		
Green 151	☐	☐	☐												
Blue BOS	☐	☐	☐	☐			☐			☐			☐		
Blue IIN	☐	☐	☐	☐	☐	☐	☐	☐					☐		☐
Blue 603	☐	☐	☐	☐	☐	☐	☐	☐					☐		
Black BSK	☐		☐		☐		☐	☐			☐	☐		☐	
Black BPLK	☐		☐		☐		☐	☐			☐	☐		☐	
Black MX	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
Black EBK	☐						☐				☐	☐		☐	
Spirit Black SAL				☐			☐		☐		☐	☐		☐	
Nigrosine BRC									☐		☐				

ORIMAX COLORS

SOLUBILITY & FASTNESS

Trade Name	Solubility(wt%)										Fastness				
	Methanol	n-Butanol	Acetone	Cyclo Hexanone	Terpentine oil	Gasoline	Benzene	Xylene	Toluene	Ethyl Acetate	Light Resistance	Heat Resistance	Acid Resistance	Alkali Resistance	
Yellow GGS	0.8	1.3	5.9	10.0	0.7	0.8	9.3	7.1	7.6	7.7	2	C	B	A	
Yellow 3G	0.2	0.5	1.5	10.2	0.6	0.4	4.8	3.6	3.9	1.6	4	B	A	A	
Yellow 105	0.6	0.6	4.9	10.5	0.6	0.8	9.9	10.2	9.9	5.1	3	A	A	A	
Orange PS	0.3	1.1	3.2	8.7	1.3	0.6	3.8	4.8	1.9	2.5	2	A	A	A	
Orange PR	0.3	1.3	2.5	9.3	0.8	0.7	4.3	4.7	5.0	4.2	2	A	A	A	
Orange 201	0.6	0.8	3.1	10.1	0.5	0.6	9.8	10.0	10.0	2.9	4	A	A	A	
Pink 139	6.9	10.4	10.5	5.8	2.6	1.5	10.0	10.7	10.5	10.3	3	A	A	A	
Red 3R	0.4	0.6	1.3	4.3	0.4	0.2	2.0	2.3	0.4	1.0	3	A	A	A	
Red RR	0.6	1.5	2.0	5.6	0.4	0.2	2.8	2.4	0.8	1.3	3	A	A	A	
Red 308	0.6	0.6	5.5	10.2	0.7	0.2	10.2	10.2	10.2	9.5	4	A	A	A	
Red 5B	0.9	2.2	3.9	9.2	0.5	0.2	7.7	5.6	6.5	4.0	3	A	A	A	
Red 5R	0.7	1.7	2.3	6.2	0.4	0.2	3.1	2.7	0.9	1.4	3	A	A	A	
Red MR	0.8	1.9	3.0	7.2	0.5	0.2	5.3	4.0	3.7	2.7	3	A	A	A	
Brown BB	2.0	2.7	5.6	10.0	0.2	0.6	2.4	1.7	1.9	5.0	2	B	A	A	
Brown BF	2.3	2.5	6.7	10.3	0.9	1.3	3.1	2.7	3.7	2.6	2	A	A	A	
Green 151	1.3	2.9	2.3	10.0	-	-	9.6	8.9	8.4	2.0	4	B	A	A	
Blue BOS	2.2	2.8	4.6	10.0	-	-	6.8	6.1	7.4	5.0	4	A	A	A	
Blue IIN	0.1	0.3	1.2	4.1	0.3	0.5	5.6	4.0	4.7	1.1	3	A	A	A	
Blue 603	10.5	8.2	10.0	9.4	1.1	0.3	2.3	0.9	1.7	1.4	3	A	A	A	
Black BSK	5.0	2.5	-	7.0	-	-	9.0	8.7	9.0	-	4	A	A	A	
Black BPLK	7.0	11.1	4.7	6.5	-	-	-	4.6	6.0	2.0	4	A	A	A	
Black MX	1.0	3.1	10.5	10.0	0.3	0.4	9.4	9.5	9.5	9.9	4	A	A	A	
Black EBK	8.9	9.0	5.0	6.4	-	-	-	6.1	6.0	-	4	A	A	A	
Spirit Black SAL	4.5	3.4	1.2	0.1	-	-	-	0.3	0.9	0.5	4	A	A	A	

*Solubility : gram weight of the dye soluble in 100grams of solvent under normal temperature

*Light Fastness(8 grade scale) : 8=excellent 1=poor

Grade of Fastness(3 grade scale) : A=Unchangeable B=a little changeable C=changeable

Heat Fastness keeping 10 minute in Dry Oven at 150°C

Acid Resistance deeping into 1% H₂SO₄ solution for 24hours

Alkali Resistance deeping into 1% NaOH solution for 24hours

ORIENT COLORS (Solvent Dyestuff)

ORIKO COLORS (Metal Complex Dye)

ORIKO COLORS作为金属络合盐染料, 日光坚 固性优良, 溶解性好, 并且作为没有升华及Bleed性的粉末染料, 具有鲜明的色彩和透明性.

ORIKO COLORS are metal complex dye which have good solubility, brilliant color shade in a wide range of organic solvents and excellent light fastness.

■用 途

- 木工涂料的染色
- 天然, 合成皮革用末尾涂料的染色
- 凹版印刷墨水的透明染色
- 铝膜及其他金属墨水的染色
- 塑料成形用涂料的染色
- 真空电镀膜层墨水的染色
- 笔用墨水

■APPLICATION

- Gravure and other Solvent Type Ink
- Printing Ink for Aluminium Foil and Metalized Film
- Transparent Coating for Aluminium Foil and Metalized Film
- Wood Stains
- Writing and Marking Ink
- Coloring Plastics, Leather
- Ball Point Pen Ink, Felt Tip Pen Ink

YELLOW 210	<i>Solvent Yellow 82</i>
YELLOW 218	<i>Solvent Orange 45</i>
ORANGE 220	<i>Solvent Orange 54</i>
ORANGE 229	<i>Solvent Orange 62</i>
PINK 230	<i>Solvent Red 218</i>
RED 138	<i>Dye Salt</i>
RED 233	<i>Solvent Red160</i>
RED 234	<i>Solvent Red 8</i>
RED 235	<i>Solvent Red 122</i>
RED 236	<i>Solvent Red 122</i>
BROWN 242	<i>Mixed</i>
BROWN 245	<i>Mixed</i>
GREEN 250	<i>Mixed</i>
BLUE 261	
BLUE 266	<i>Solvent Blue 70</i>
BLUE 268	<i>Solvent Blue 48</i>
BLUE 163	<i>Dye Salt</i>
VIOLET 270	<i>Acid Brown 29</i>
BLACK 280	<i>Solvent Black 27</i>
BLACK 281	<i>Solvent Black 27</i>
BLACK 284	<i>Solvent Black 34</i>

ORIKO COLORS

SOLUBILITY

Solubility : g/ℓ

Trade Name Solvent	Yellow 210	Yellow 218	Orange 220	Orange 229	Pink 230	Red 138	Red 233	Red 234	Red 236
Methanol	440	160	450	120	210	360	360	30	110
n-Butanol	>500	70	230	80	210	160	320	40	170
Iso-propanol	320	50	160	60	70	100	20	10	120
Ethylacetate	>500	100	>500	130	Trace	Trace	130	210	140
Ethylcellosolve	>500	230	>500	>500	380	500	430	210	>500
Methylethylketone	>500	>500	>500	>500	250	Trace	410	>500	>500
Toluene	>500	Trace	350	20	Trace	Trace	10	Trace	Trace
Acetone	>500	330	>500	280	Trace	Trace	Trace	110	370
EA:TL (40:60)	>500	10	470	80	10	Trace	70	20	100
EA:MeOH:TL (20:25:55)	>500	10	470	450	50	110	150	70	450
EA:BA:BuOH:TL:XY (5:25:10:30:30)	>500	50	450	140	10	80	250	20	120

ORIKO COLORS

SOLUBILITY

Solubility : g/ℓ

Trade Name Solvent	Brown 242	Brown 245	Green 250	Blue 266	Blue 163	Violet 270	Black 280	Black 281	Black 284
Methanol	330	160	440	270	>500	40	120	60	50
n-Butanol	190	190	480	270	90	30	60	20	100
Iso-propanol	40	50	200	160	Trace	20	Trace	Trace	20
Ethylacetate	>500	190	>500	130	Trace	30	80	Trace	Trace
Ethylcellosolve	220	>500	>500	>500	>500	Trace	>500	250	430
Methylethylketone	360	250	>500	>500	Trace	240	>500	200	190
Toluene	250	180	350	180	Trace	Trace	10	10	Trace
Acetone	110	250	250	200	Trace	Trace	160	140	Trace
EA:TL (40:60)	320	250	>500	400	Trace	Trace	430	10	Trace
EA:MeOH:TL (20:25:55)	400	>500	>500	460	400	360	70	20	35
EA:BA:BuOH:TL:XY (5:25:10:30:30)	200	180	350	470	Trace	10	>500	10	Trace

ORIENT COLORS

(Solvent Dyestuff)

ORIKOSOL COLORS

(Liquid Metal Complex Dye)

M-TYPE

YELLOW M-10E	Solvent Yellow 82
ORANGE M-20E	Solvent Orange 54
ORANGE M-29E	Solvent Orange 62
RED M-34E	Solvent Red 8
RED M-36E	Solvent Red 122
BROWN M-42E	Mixed
BROWN M-45E	Mixed
GREEN M-50E	Mixed
BLUE M-66E	Solvent Blue 70
BLACK M-80E	Solvent Black 27
BLACK M-84E	Solvent Black 34

A-TYPE

YELLOW A-10	Solvent Yellow 82
ORANGE A-20	Solvent Orange 54
ORANGE A-29	Solvent Orange 62
RED A-34	Solvent Red 8
RED A-36	Solvent Red 122
BROWN A-42	Mixed
BROWN A-45	Mixed
GREEN A-50	Mixed
BLUE A-60	Solvent Blue 70
BLACK A-80	Solvent Black 27
BLACK AK-80	Solvent Black 27
BLACK A-83	Solvent Black 27
BLACK A-84	Solvent Black 34

ORIKOSOL COLORS是比以往使用的粉末金属络合盐染料更容易使用的液体染料, 坚固性优良, 具有鲜明的色彩和透明性. ORIKOSOL COLORS根据溶剂或者浓度有M, A-Type的类型, 特别是A-Type的类型有水溶性或油溶性, 是具有两用性的皮革用染料.

ORIKOSOL COLORS are liquid form of metal complex dyes with convenience in coloring work. They are divided to A and M types according to solvents. The A-type, soluble in all of water and solvents, specially have good application for coloring leather coating.

■成分

染料 : 约20%

有机溶剂 : 约80%

※颜色与ORIKO COLOR几乎相同.

■用途

- 木工涂料的染色
- 天然、合成、皮革用末尾涂料的染色
- 凹版印刷墨水的透明染色
- 铝膜及其他金属墨水的染色
- 塑料成形用涂料的染色
- 真空电镀膜层墨水的染色

■COMPOSITION

Dye : about 20%

Solvent : about 80%

※Color shade is almost similar with Oriko Colors

■APPLICATION

- Gravure Ink and other Solvent Type Ink
- Printing Ink for Aluminium Foil and Metalized Film
- Transparent Coating for Aluminium Foil and Metalized Film
- Wood Stains
- Writing and Making Ink
- Coloring Plastics, Leather

ORIENT COLORS (Solvent Dyestuff)

PLAMAX COLORS

PLAMAXCOLORS是为了塑料染色用而开发的染料, 日光坚固性, 耐热性, 树脂相容性等非常好的染色剂.

与颜料不同的是溶于树脂, 因此染色度高, 可以得到美丽的色彩和透明性.

PLAMAX COLORS have developed for coloring plastic products, and have good solubility in a number of thermoplastics during processing. They form molecular solutions which are stable in the dyed thermoplastics. Thus, one of the most important applications for these dyestuffs is the transparent dyeing of glass-clear thermoplastics.

YELLOW	5G	<i>Solvent Yellow 93</i>
ORANGE	20	<i>Solvent Orange 60</i>
RED	30	<i>Solvent Red 111</i>
RED	39	<i>Solvent Red 135</i>
GREEN	50	<i>Solvent Green 3</i>
BLUE	60	<i>Solvent Blue 78</i>
VIOLET	70	<i>Solvent Violet 13</i>

■用 途

苯乙烯树脂, ABS树脂, AS树脂, 丙烯酸树脂, 尿素树脂, 三聚氰胺树脂, 聚酯树脂, 聚碳酸酯树脂, 硬质PVC树脂, 纤维素, 醋酸盐树脂, 聚酰胺树脂

■APPLICATION

Polystyrene, ABS, AS, Acrylic, Urea, Melamine, Polyester, Polycarbonate, rigid PVC, Cellulose Ester, Acetate, Polyamide.

ORIENT COLORS

(Solvent Dyestuff)

NIGROSINE

Nigrosine Base
(Solvent Soluble 水溶性)

Sprit Black SAL
Sprit Black SAC
Sprit Black SACR
Nigrosine Base EBK

Solvent Black 7

NIGROSINE是由苯胺和硝基苯聚合反应而产生二氮陆化合物，很久以前开始就使用为有机黑色染料。

NIGROSINE具有水溶性和油溶性两种性质，用途如下。

Water Nigrosine
(Water Soluble 油溶性)

Nigrosine BRC
Nigrosine R-455
Nigrosine R-456
Nigrosine R-510
Orijet Black WB

Acid Black 2

NIGROSINE, azine compound made from aniline and nitrobenzene, has been used as organic black dyestuff for a long period. Nigrosine is divided to water soluble and solvent soluble.

■用 途

- 水溶性Nigrisone(苯胺黑)：各种水性墨水，图章墨水，水性鞋油
- 油溶性Nigrisone(苯胺黑)：酚醛树脂，尿素树脂，笔用墨水，丝带打印机，鞋油

■APPLICATION

- Water Nigrosine: Urea Resin, Wood Stain, Water Signpen Ink, Leather, Shoe Polish, Stamp Ink
- Nigrosine Base: Phenolic Resin, Urea Resin, Ball Point Pen Ink, Carbon Paper, Type Ribbon, Shoe Polish

PETROLEUM ADDITIVE

MAXOL COLORS (Liquid Dye)

MAXOL COLORS是改善使用粉末染料时不方便, 而制作成容易使用的液体染料. 它不是溶解粉末染料, 而是在溶剂当中反应的高浓度产品, 其流动性好, 没有不溶解的成分, 染色方法改善为石油类染色专用染料.

MAXOL COLORS are single phase liquid dyes, not solution of powder, and miscible with all petroleum products. They are also free from moisture and insoluble matters. Maxol colors can be easily pumped, poured and metered from container to tank.

YELLOW - 4L

Solvent Yellow 107

ORANGE - 4L

RED - I - 4L

RED - II - 4L

BROWN - 4L

GREEN - 4L

BLUE - 4L

BLACK - 4L

■成分

染料: 约40%

溶剂: 约60% (甲苯 或 二甲苯)

■用途

石油类产品的染色(汽油, 石油, 柴油, 润滑油, 油脂等)

■COMPOSITION

Dye : about 40%

Solvent : about 60%(Toluene or Xylene)

■APPLICATION

· ALL Petroleum Products

(Gasoline, Diesel, Lubricant, Grease)

MAXOL COLORS

Typical properties

	Yellow-4L	Orange-4L	Red-I-4L	Red-II-4L	Brown-4L	Green-4L	Blue-4L	Black-4L
Appearance	Uniform Liquid							
Specific Gravity	0.93-0.98	0.93-0.98	0.93-0.98	0.93-0.98	0.93-0.98	0.93-0.98	0.93-0.98	0.93-0.98
Benzene Insoluble	Trace or None							
Flash Point	Above13℃	Above12℃	Above10℃	Above12℃	Above15℃	Above12℃	Above18℃	Above15℃
Moisture	Unmeasurable or Trace							
Viscosity at 25℃ (cp)	4.0-40.0	2.0-20.0	2.0-20.0	2.0-20.0	2.0-20.0	2.0-20.0	2.0-20.0	2.0-20.0
Liquidity at-15℃	Complete							

PETROLEUM ADDITIVE

ORIMARKER

ORIMARKER是石油类无色鉴别剂, 添加时不显色, 用视觉无法鉴别是否添加了鉴别剂, 添加发色试剂后用UV/VIS测量, 才能分辨出有无鉴别剂.

ORIMARKER按各浓度级都有正确的吸光度, 长期保管时也没有沉淀和吸光度的变化, 是优质安全的产品.

■ 检验方法

添加10ppmORIMARKER的煤油15ml中加入1ml的发色试剂 (Developer)摇晃1分钟后, 放置4分钟, 转移到UV/VIS中测吸光度.

■ UV/VIS 分光计的测定条件

波长范围 : 400nm~700nm

吸光度范围 : 0.0 ~ 1.0A

■ 用 途

锅炉煤油, 白煤油, 副生油

ORIMARKER is a unique range of colorless chemical marking agents for brand or grade identifications and fraud detection.

ORIMARKER maybe used to mark petroleum fluid including kerosene.

Specific Features :

- No visible change in color of base fuel when marker is added.
- Reddish violet color when developed.
- Excellent color development in presence of red dye.
- Marker with high flash solvent for safer handling.

Stability

ORIMARKER is guaranteed to remain stable as supplied in unopened containers for a minimum of a year.

The same guarantee will apply for these products while in use in your distribution system.

Chemical Characterization of

ORIMARKER Developer

A solution of quarternary ammonium compound in high flash point solvent.

ORIENT INKS

(Stationery Ink)

MICPIC COLORS

(White Board Ink)

Alcohol Mill Base

YELLOW	AM-12
ORANGE	AM-22
RED	AM-32
MAGENTA	AM-M2
BROWN	AM-42
GREEN	AM-52
D-GREEN	AM-53
BLUE	AM-62
SKY BLUE	AM-64
VIOLET	AM-72
PURPLE	AM-73
BLACK	AM-83

MICPIC COLORS具有把颜料稀释粉碎变成超微粒分散的加工颜料或得不到颜料的特性。在乙醇中分散颜料的产品有White Board Marker pen用和Ink, 获得ASTM D-4236和EN-71认证, 其稳定性得到承认。

MICPIC COLORS, produced through hyper dispersion, have special advantage which can not obtain from normal pigment or dyestuff. Micpic Colors are liquid phase pigment dispersed in alcohol used for white board marker pen, and approved ASTM D-4236 and EN-71.

Alcohol Base Ink(White Board Ink)

YELLOW	A-15
ORANGE	A-25
RED	A-35
MAGENTA	A-M5
BROWN	A-45
GREEN	A-55
D-GREEN	A-56
BLUE	A-65
SKY BLUE	A-67
VIOLET	A-75
PURPLE	A-76
BLACK	A-86

· 平均 粒径	0.1um以下
· 颜料粉	
Mill Base	about 10%
Ink	about 3%

■ 用途

white Board用 Marker Pen

■ APPLICATION

White Board Marker Pen

ORIENT INKS
(Stationery Ink)

ORIMEMO COLORS
(Highlighter Pen Ink)

ORIMEMO COLORS是把高分子空中聚合体根据乳化中合反应, 以Nano-size微粒子化得到的微粒, 具有鲜明的色彩和一致的粒度, 稳定性优良, 应用在文具制品中荧光笔的Base及Ink, 并且获得ASTM S-4236和EN-71的认证, 其稳定性得到了承认.

ORIMEMO COLORS, with nano-size particle phase made by the process of polymerization, have bright color, uniform particle size and excellent term constancy in quality. They are specially used as the Base and Ink for Highlighter Pen, and approved ASTM D-4236 and EN-71.

■用途

Highlighter Pen
荧光笔

■APPLICATION

Highlighter Pen

ORIMEMO BASE

YELLOW	FB-12
ORANGE	FB-22
Y-ORANGE	FB-23
PINK	FB-32
RED	FB-33
BROWN	FB-42
GREEN	FB-52
BLUE	FB-62
NAVY BLUE	FB-63
VIOLET	FB-72

ORIMEMO INK

YELLOW	F-15
ORANGE	F-25
Y-ORANGE	F-26
PINK	F-35
RED	F-36
BROWN	F-45
GREEN	F-55
BLUE	F-65
NAVY BLUE	F-66
VIOLET	F-75

ORIMEMO FLAVOR(향) INK

YELLOW	FF-15
ORANGE	FF-25
Y-ORANGE	FF-26
PINK	FF-35
RED	FF-36
BROWN	FF-45
GREEN	FF-55
BLUE	FF-65
NAVY BLUE	FF-66
VIOLET	FF-75

ORIENT INKS (Stationery Ink)

ORIGEL COLORS (Gel Pen Ink)

ORIGEL INK (Neutral ink Dye Type)

YELLOW	JD-15
RED	JD-35
GREEN	JD-55
BLUE	JD-65
S-BLUE	JD-66
BLUE BLACK	JD-67
VIOLET	JD-75
BLACK	JD-85

ORIGEL INK (Neutral ink Pigment Type)

RED	JP-35
GREEN	JP-55
BLUE	JP-65
BLACK	JP-85

ORIGEL COLORS是指荧光笔或中性笔用的墨水。它具有随着剪段速度的增加而黏度下降的 Non-newtonian Fluid 的特性。因此 ORIGEL COLORS 是完善了现有的水性墨水的缺点，即在纸上扩散的现象和油性墨水对纸面缺少吸附力而产生垃圾的现象，作为新一代笔记用墨水，书写流畅，直到用完墨水为止提供鲜明而稳定的笔记线。

The trademarked ink as ORIGEL COLORS are manufactured by Orient Chemical (Korea), Ltd. This ink is a gel ink, and the property is shown by expression such as pseudo-plasticity, non-Newtonian viscosity. It provides ball-point pen filled with an aqueous gel ink with having less blob, less direct flow phenomenon, and capable of drawing stable lines having vivid color.

■用途

Gel Pen
荧光笔(中性笔)

■APPLICATION

Gel Pen

ORIENT INKS

(Stationery Ink)

ORIMAC COLORS

(Permanent Marker Ink)

ORIMAC COLORS作为Permanent Marker Ink的商品名, 既经济, 稳定性又好, 在平整的表面粘贴力非常显著, 色彩也是非常亮的墨水, 且异味少, 以毒性弱的酒精为主溶剂, 流淌性优良, 干燥速度快, 耐久性非常强, 因尔可以多种用途使用的笔记用墨水.

ORIMAC COLORS are the trademark for the Permanent Marker Ink, manufactured by Orient Chemical(KOR),LTD.

These inks feature durable, bright colors and good adhesion to non-porous surfaces -at economical prices. Contain in alcohol no toxic or irritating ingredients. Markers filled with these inks is Excellent flow, Quick dry

ORIMAC INK

RED	P-35
GREEN	P-55
BLUE	P-65
BLACK	P-85

■用途
油性万能笔

■APPLICATION
Permanent marker ink

PLOTTER INK

OPLOTT INK

OPLOTT TPW Series

YELLOW	001Y
MAGENTA	002M
CYAN	003C
BLACK	004K

OPLOTT INK作为使用在Novajet Thermal type plotter再添满用水溶性颜料墨水, 把颜料加工成超微粒子, 具有非常强的耐久性, 耐水性, 有卓越的发色度, 磁头流畅, 是适合连续打印的大型写实形象用的墨水.

OPLOTT INK is water-pigment refill ink for Novajet Thermal type plotter.

It manufactured through hyper dispersion, has a bright color, durable and water resistance.

According to the maximum printing length for No cartridge damage , it is suitable a Large Format Image Printing.

■用 途

更新水溶性打印机

■APPLICATION

Novajet Thermal plotter