Water-based Colors for Paper

Application

Coloring of printing paper, white paperboard, cast-coated paper, wallpaper, origami (colored paper for folding), paper file, conductive paper, light shielding paper, etc.

Characteristics

- Coloring agent for paper coating, containing aqueous pigment dispersion with stable and fine particles
- Capable of providing exclusive products for bluing as well as general purpose products
- Selectable between anion type and nonion type according to the kind of base paper and coating liquid
- Excellent in dispersion stability and compatibility with binders
- Practicability of optional color matching and mixing by using our products (colors)
- Free from causing oil spots on coating film
- Excellent in water-resistance, heat-resistance and light-fastness of colored coating film

Representative Products

Type	Product name	Pigment used	Heat-resistance	Light-fastness
Anion	416 Yellow	Disazo-yellow	5	3
	906 Yellow	Disazo-yellow	5	3
	307 Red	Naphthol AS-red	5	3
	516 Green	Chlorinated copper phthalocyanine	5	8
	536 Blue	Copper phthalocyanine (α)	5	7-8
	556 Blue	Copper phthalocyanine (α)	5	7-8
	708 Blue	Copper phthalocyanine (β)	5	8
	1516 Violet	Dioxazine	5	7
	1731 Black(J)	Carbon black	5	8
	506 Orange	Pyrazolone	5	3
Anion Nonion	1525 Blue G	Copper phthalocyanine (α)	5	7-8
	2505 Violet 3R	Dioxazine	5	7
Nonion	500 Yellow R	Disazo-yellow	5	3
	910 Yellow FR	Disazo-yellow	5	5
	720 Red 2B	Naphthol AS-red	5	5
	1100 Red FG-N	Condensed azo	5	5-6
	510 Green B	Chlorinated copper phthalocyanine	5	8
	520 Blue 2B	Copper phthalocyanine (α)	5	7-8
	700 Blue GA	Copper phthalocyanine (β)	5	8
	1500 Violet 3RN	Dioxazine	5	7
	510 Black TR	Carbon black	5	8

*1) Heat-resistance test : Evaluate the discoloration by 5 ratings after heating the colored base paper at 150℃ for 10min, with hot air dryer.
*2) Light-fastness test : Use "fade-0-meter" and evaluate the discoloration by 8 ratings after 120 hours light exposure.
＊Above is our internal experimental data. It is not guaranteed.

Application

Coloring of base paper for decorative board, colored base paper applied to wallpaper, washing resistant paper, fruit-growing paper, paper for fresh fruit, paper for automobile tire wrapping, business envelope, insulating paper, conductive paper, etc.

Characteristics

- Coloring agent for paper making, containing pigment dispersion with stable and fine particles by using low-foaming surfactant
- Capable of mixing easily in a Beater machine because of the pigment uniformly atomized and dispersed in aqueous dispersion
- Excellent in pigment yield because of low-foaming tendency during papermaking process
- Excellent in dispersion stability
- Practicability of optional color matching and mixing by using our products(colors)
- Excellent in heat-resistance, light-fastness and chemical-resistance

Representative Products

Product name	Pigment used	Solvent-resistance*1) methanol	Solvent-resistance*1) MEK	Heat-resistance	Light-fastness
1837 Yellow	Monoazo-yellow	4-5	3	5	3
1957 Yellow	Disazo-yellow	5	4	5	5
1387 Red(J)	Naphthol AS-red	4	2	4	5
1534 Blue(J)	Copper phthalocyanine (α)	5	5	5	7-8
1737 Blue	Copper phthalocyanine (β)	5	5	5	8
2636 Violet(J)	Dioxazine	5	5	5	7
1731 Black(J)	Carbon black	5	5	5	8
1056 Yellow	Yellow iron oxide	5	5	5	8

Solvent-resistance, Heat-resistance, Evaluation
Grade 5 : Discoloration (color contamination) is not recognized.
Grade 4 : Discoloration (color contamination) is slightly recognized.
Grade 3 : Discoloration (color contamination) is somewhat recognized.
Grade 2 : Discoloration (color contamination) is remarkably recognized.
Grade 1 : Discoloration (color contamination) is considerably recognized.

Light-fastness Evaluation
Grade 8 : Discoloration is not recognized.
Grade 1 : Completely decolored

*1) Solvent-resistance test : Evaluate the discoloration of the colored base paper and the color contamination of the solvent by 5 ratings after soaking 1cm² colored base paper into 2ml solvent.
*2) Heat-resistance test : Evaluate the discoloration by 5 ratings after heating the colored base paper at 150℃ for 10min,with hot air dryer.
*3) Light-fastness test : Use "fade-0-meter" and evaluate the discoloration by 8 ratings after 120 hours light exposure.
＊Above is our internal experimental data. It is not guaranteed.

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