VIBRANTZ
TECHNOLOGIES™

VIBRANTZ PIGMENTS
FOR INKS

About **Vibrantz Technologies**

Vibrantz Technologies is a leading global supplier of technology-based performance materials, including glass-based coatings, pigments and colors, and polishing materials. Vibrantz products are sold into the building and construction, automotive, appliances, electronics, household furnishings, and industrial products markets. The company is headquartered in Houston, Texas, USA.

Our Values and behaviors:

- **CUSTOMER FOCUS**
  Our customers are why we exist. We build relationships with internal and external customers that are built on trust, a desire to understand their needs and challenges, and a genuine interest in making them more successful.

- **ACCOUNTABILITY FOR PERFORMANCE**
  As individuals and teams, we work to achieve the highest performance standards. We prioritize safety and environmental stewardship; providing high-value solutions for our customers; and creating value for Vibrantz's shareholders.

- **INNOVATIVE THINKING**
  We encourage our associates to seek out new ideas for technologies and business processes, and to always look for ways to improve and to better serve our customers.

- **TEAMWORK AND COLLABORATION**
  We are committed to a work environment that promotes trust, mutual respect, teamwork and collaboration, and that focuses on consistently delivering value to our customers and shareholders.

BLUE

PB1	Lumiere Blue P.T.M	organic pigments
PB15:1	Phthalocyanine Blue	organic pigments
PB15:3	Phthalocyanine Blue	organic pigments
PB15:4	Phthalocyanine Blue	organic pigments

VIOLET

PV2	Lumiere Pink S.M	organic pigments
PV3	Lumiere Violet P.T.M	organic pigments
PV3:4	Lumiere Violet P.M	organic pigments
PV19	Quinacridone Violet	organic pigments
PV23	Dioxazine Violet	organic pigments

GREEN

PG7	Phthalocyanine Green	organic pigments

YELLOW

PY3	Monoazo Yellow	organic pigments
PY13	Diarylide Yellow	organic pigments
PY14	Diarylide Yellow	organic pigments
PY17	Diarylide Yellow	organic pigments
PY73	Monoazo Yellow	organic pigments
PY74	Monoazo Yellow	organic pigments
PY83	Diarylide Yellow	organic pigments
PY110	Isoindolinone Yellow	organic pigments
PY111	Monoazo Yellow	organic pigments
PY151	Benzimidazolone Yellow	organic pigments
PY155	Bisacetoacetarylide Yellow	organic pigments
PY170	Diarylide Yellow	organic pigments
PY181	Benzimidazolone Yellow	organic pigments

ORANGE

PO13	Disazopyrazolone Orange	organic pigments
PO34	Disazopyrazolone Orange	organic pigments
PO36	Benzimidazolone Orange	organic pigments
PO64	Benzimidazolone Orange	organic pigments

RED

PR2	Naphthol AS Red	organic pigments
PR48:1	BONA, Ba Lake Red	organic pigments
PR48:2	BONA, Ca Lake Red	organic pigments
PR48:3	BONA, Sr Lake Red	organic pigments
PR48:4	BONA, Mn Lake Red	organic pigments
PR53:1	Beta Naphthol Ba Lake Red	organic pigments
PR81:5	Lumiere Pink S.M.	organic pigments
PR122	Quinacridone Red	organic pigments
PR146	Naphthol AS Red	organic pigments
PR170	Naphthol AS Red	organic pigments
PR176	Benzimidazolone Red	organic pigments
PR184	Naphthol AS Red	organic pigments
PR266	Naphthol AS Red	organic pigments

LYSOPURE RANGE

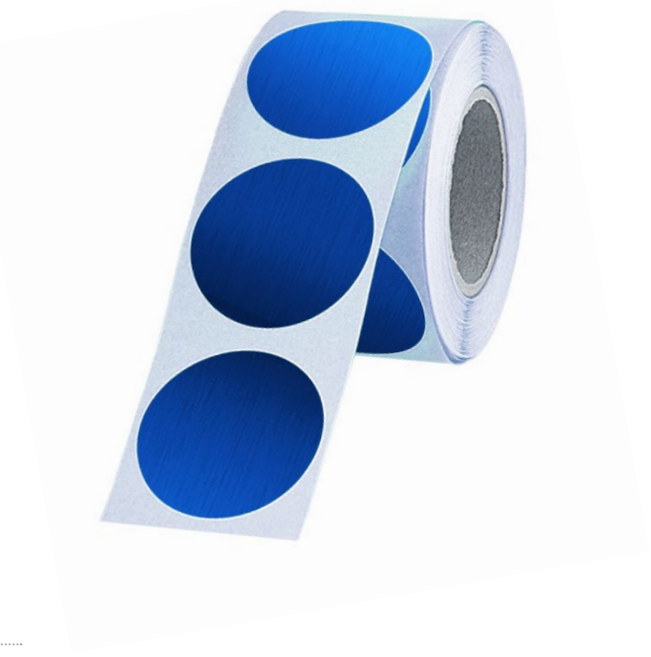
Functional pigments

APPLICATIONS GUIDE

PB1 • LUMIERE BLUE P.T.M

MAIN CHARACTERISTICS

- Pigment Blue 1 (C.I. 42595:2)
- Complex salts of Victoria Blue dye/heteropolyacid P.T.M.
- Used for Excellent color brillance and clarity of hue and better fastness compare Cuproferric Salt with Victoria Blue dye



	0151N	0153N	0154N	0155N
Heat fastness	3[1]	3[1]	5[1]	3-4[1]
Light fastness*	5[2]	5[2]	5[2]	5[2]
Acid fastness	4[1]	5[1]	5[1]	4-5[1]
Alkali fastness	4[1]	3-4[1]	4[1]	4[1]
Solvent fastness	2[1]	2-3[1]	2-3[1]	3[1]
Alcohol fastness	3[1]	3[1]	3[1]	3-4[1]

Resistance of Print. Light Fastness*: 20% offset ink. [1] Scale 1 to 5. [2] Scale 1 to 8.

RECOMMENDED PRODUCTS

Lumiere Blue PTM 0151N

Standard grade particularly designed for oil based ink. It has greenish shade. A greener version of Blue 0155N for offset inks

Lumiere Blue PTM 0153N/Lumiere Blue PTM 0155N

Standard grade particularly designed for NC solvent based ink. 0155N has a reddish shade close to Pantone Blue 072C

Lumiere Blue PTM 0154N

Standard grade particularly designed for water based ink it has the most reddish shade of PB1 Lumiere

PB15:1 • PHTHALOCYANINE BLUE

MAIN CHARACTERISTICS

- Pigment Blue 15:1 (C.I. 74160)
- Reddish blue Cu-Phthalo with α-modification, offering a good brightness
- It has excellent overall fastness properties and high level of gloss, transparency

Heat fastness	5 (scale 1 to 5)
Light fastness**	7-8 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: Liquid ink 8%.

RECOMMENDED PRODUCTS

Phthalocyanine 1511C

Standard grade

Recommended for solvent based ink, UV, Screen ink

PB15:3 • PHTHALOCYANINE BLUE

MAIN CHARACTERISTICS

- Pigment Blue 15:3 (C.I. 74160)
- Reddish blue Cu-Phthalo with β-modification

RECOMMENDED PRODUCTS

Phthalocyanine 1532C

Standard Universal grade suitable for offset ink and both Solvent and water based ink application, can also be used in UV curing ink system

Phthalocyanine 1533C

Standard Universal grade specially suitable for solvent based ink

Recommended for solvent based ink, UV, Screen ink

Heat fastness	5 (scale 1 to 5)
Light fastness**	7-8 (scale 1 to 8)
Acid fastness	4-5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: Liquid ink 8%.

PB15:4 • PHTHALOCYANINE BLUE

MAIN CHARACTERISTICS

- Pigment Blue 15:4 (C.I. 74160)
- Reddish blue Cu-Phthalo with β-modification

Heat fastness	5 (scale 1 to 5)
Light fastness**	7-8 (scale 1 to 8)
Acid fastness	4-5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: Liquid ink 8%.

RECOMMENDED PRODUCTS

Phthalocyanine 1541C

Standard Universal grade suitable for solvent based ink flexo and gravure ink syst, can also be used in UV curing ink system

Recommended for solvent based ink, UV ink

PV2 • LUMIERE PINK S.M

MAIN CHARACTERISTICS

- Pigment Violet 2 (C.I. 45175:1)
- Complex salts of Basic Violet dye/ heteropolyacid S.M.
- Used for Excellent color brillance and clarity of hue

RECOMMENDED PRODUCTS

Lumiere Purple SM 0245N

Standard grade particularly designed for oil based ink

Shade close to pantone Purple with high Color strength and cleanness compare to competition

Can also be used in combination with red 8135N to create possible alternative to Pigment Violet 1

Heat fastness	4-5 (scale 1 to 5)
Light fastness**	4 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	4-5 (scale 1 to 5)
Solvent fastness	4 (scale 1 to 5)
Alcohol fastness	3 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

PV3 • LUMIERE VIOLET P.T.M

MAIN CHARACTERISTICS

- Pigment Violet 3 (C.I. 42535:2)
- Complex salts of Methyl Violet dye/ heteropolyacid P.T.M.
- Used for Excellent color brillance and clarity of hue and better fastness compare Cuproferric Salt with methyl violet dye

Heat fastness	4 (scale 1 to 5)
Light fastness**	5 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	4 (scale 1 to 5)
Solvent fastness	4 (scale 1 to 5)
Alcohol fastness	4 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Lumiere Violet PTM 0345N

Standard grade particularly designed for NC Solvent based ink

Its excellent NC resistance makes it particularly appropriate for chips production...

Recommended for solvent based, offset and water based inks

PV3:4 • LUMIERE VIOLET P.M

MAIN CHARACTERISTICS

- Pigment Violet 3:4 (C.I. 42535:6)
- Complex salts of Methyl Violet dye/ heteropolyacid P.M.
- Used for Excellent color brillance and clarity of hue and better fastness compare Cuproferric Salt with methyl violet dye

	0348N	0347N
Heat fastness	4(1)	3(1)
Light fastness*	4(2)	6(2)
Acid fastness	5(1)	5(1)
Alkali fastness	4(1)	4-5(1)
Solvent fastness	4-5(1)	3-4(1)
Alcohol fastness	4-5(1)	3-4(1)

Resistance of Print. Light Fastness*: 20% offset ink. (1) Scale 1 to 5. (2) Scale 1 to 8.

RECOMMENDED PRODUCTS

Lumiere Violet RPM 0347N

Standard grade particularly designed for oil based ink

Shade close to pantone Violet C

Lumiere Violet R-NC PM 0348N

Standard grade particularly designed for NC solvent based ink

PV19 • QUINACRIDONE VIOLET

MAIN CHARACTERISTICS

- Pigment Violet 19 (C.I. 73900)
- Very clean bluish shade of quinacridone
- High tinting strength and good transparency with outstanding fastness properties

Heat fastness	5 (scale 1 to 5)
Light fastness**	7 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Lysopac Violet 1940C

Standard bluish grade (ß-modification)

Lysopac Red 1941C

Standard reddish grade (y-modification)

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic printing inks, UV inks, and screen inks

PV23 • DIOXAZINE VIOLET

MAIN CHARACTERISTICS

- Pigment Violet 23 (C.I. 51319)
- Very clean bluish shade dioaxazine pigment
- High tinting strength and good transparency with outstanding properties

Heat fastness	5 (scale 1 to 5)
Light fastness**	6-7 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Lysopac Violet 2342C

Standard bluish version, with very good performance in solvent base ink with very good rheology performances

Lysopac Violet 2341C

More reddish version compare to 2342C suitable for waterborne ink

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic printing inks, UV inks, screen...

PG7 • PHTHALOCYANINE GREEN

MAIN CHARACTERISTICS

- Pigment Green 7 (C.I. 74160)
- Greenish yellow shade Cu-Phthalo pigment

RECOMMENDED PRODUCTS

Phthalocyanine 0762C

Standard Universal grade suitable for both solvent and water based ink flexo and gravure ink syst, can also be used in offset ink application

Heat fastness	5 (scale 1 to 5)
Light fastness**	8 (scale 1 to 8)
Acid fastness	4-5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: Liquid ink 8%.

PY3 • MONOAZO YELLOW

MAIN CHARACTERISTICS

- Pigment Yellow 3 (C.I. 11710)
- Clean greenish yellow
- Semi-transparent version with good light fastness property
- It has the classic 10g shade with the advantage of greater intensity and gloss
- Less stable to strong organic solvents

Heat fastness	3-4 (scale 1 to 5)
Light fastness**	7 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	4 (scale 1 to 5)
Alcohol fastness	4-5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Acetanil Yellow 10 GH 0314C

Standard grade

Recommended for paste inks as well as for solvent and flexographic printing inks

PY13 • DIARYLIDE YELLOW

MAIN CHARACTERISTICS

- Pigment Yellow 13 (C.I. 21100)
- Medium Yellow shade .shade close to the European Scale for Process printing
- Good tinting strength and gloss

Heat fastness	5 (scale 1 to 5)
Light fastness**	5-4 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	4-5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Diacetanil Yellow GR 1314C

Standard semi-transparent grade

Lysopure Yellow 1318C

High purity version (Low content in Primary Aromatic Amine)

Lysopure Yellow 1319C

High purity version (Low content in Primary Aromatic Amine)

Recommended for paste inks as well as for solvent- and water based packaging gravure and flexographic printing inks

Suitable for metal decorating inks when stoving temperature does not exceed 200°C

PY14 • DIARYLIDE YELLOW

MAIN CHARACTERISTICS

- Pigment Yellow 14 (C.I. 21095)
- Greener Yellow shade compare to European scale for processing
- Good tinting strength and gloss, semi-transparent grade
- Light fastness 1 point lower Than PY13

RECOMMENDED PRODUCTS

Diacetanil Yellow AAOT 1414C

Standard semi-transparent grade

Recommended for paste inks as well as solvent or water based printing inks

Heat fastness	4 (scale 1 to 5)
Light fastness**	3 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

PY17 • DIARYLIDE YELLOW

MAIN CHARACTERISTICS

- Pigment Yellow 17 (C.I. 21105)
- Very Greenish diarylide shade, high transparency grade
- Good tinting strength and gloss
- Good Light & Heat fastness

RECOMMENDED PRODUCTS

Diacetanil Yellow 1715C

Standard grade

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic printing inks

Heat fastness	5 (scale 1 to 5)
Light fastness**	5-6 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

PY73 • MONOAZO YELLOW

MAIN CHARACTERISTICS

- Pigment Yellow 73 (C.I. 11738)
- Shade similar to PY1 with higher transparency & good light fastness
- Semi-transparent version
- Less stable to strong organic solvents

Heat fastness	3 (scale 1 to 5)
Light fastness**	7 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	3 (scale 1 to 5)
Alcohol fastness	4 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Acetanil Yellow 4 GH 7312C

Standard grade

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic printing inks

PY74 • MONOAZO YELLOW

MAIN CHARACTERISTICS

- Pigment Yellow 74 (C.I. 11741)
- Very strong, Medium Yellow shade
- Higher performance compare to yellow 73
- Less stable to strong organic solvents

Heat fastness	3 (scale 1 to 5)
Light fastness**	6 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	3-4 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Acetanil Yellow 5GSH 7412C

High transparent version

Acetanil Yellow 5 GH 7414C

Semi- transparent version

Acetanil Yellow 2GO 7415C

Opaque version

Lysopure Yellow 7418C

High purity version (Low content in Primary Aromatic Amine)

Recommended for paste inks as well as for solvent and water-based packaging gravure and flexographic printing inks

PY83 • DIARYLIDE YELLOW

MAIN CHARACTERISTICS

- Pigment Yellow 83 (C.I. 21108)
- Reddish Yellow shade
- High gloss & transparency with good light fastness
- Good tinting strength and suitable to create golden shade
- Good heat resistance

Heat fastness	5 (scale 1 to 5)
Light fastness**	5-6 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: Liquid ink 8%.

RECOMMENDED PRODUCTS

Diacetanil Yellow 3RH 8315C

Very strong red shade, higher gloss & transparency

Diacetanil Yellow HT 8316C

Very strong red shade, higher gloss & transparency Vs 8315C

Diacetanil Yellow HTT 8318C

Highest transparency, better flow properties in SB ink

Diacetanil Yellow HTT 8317C

New high transparency, with quite better flow properties in SB ink (Alcohol/Ester based)

Diacetanil Yellow HTT 8319C

New high transparency, with better flow properties in mono-solvent SB (ACE) based inks

Especially recommended for solvent based packaging gravure and flexographic printing

Lysopac Yellow 8312S

Standard opaque grade

PY110 • ISOINDOLINONE YELLOW

MAIN CHARACTERISTICS

- Pigment Yellow 110 (C.I. 56280)
- Semi transparent reddish yellow
- Overall good fastness properties

Heat fastness	5 (scale 1 to 5)
Light fastness**	8 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Lysopac Yellow 1010C

Standard grade

PY111 • MONOAZO YELLOW

MAIN CHARACTERISTICS

- Pigment Yellow 111 (C.I. 11745)
- Very Greenish Yellow shade with higher Color strength compare to PY3
- Very good Light and weather fastness
- Less stable to strong organic solvents

Heat fastness	5 (scale 1 to 5)
Light fastness**	6-7 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	4 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: Liquid ink 8%.

RECOMMENDED PRODUCTS

Acetanil Yellow 7GT 1115C

Standard grade

Lysopure Yellow 1118C

High purity version (Low content in Primary Aromatic Amine)

Recommended for paste inks as well as for solvent and water-based packaging gravure and flexographic printing inks

PY151 • BENZIMIDAZOLONE YELLOW

MAIN CHARACTERISTICS

- Pigment Yellow 151 (C.I. 13980)
- Semi opaque, clean greenish Yellow
- Excellent light and weather fastness properties and heat stability
- Limited alkali resistance
- Suitable for demanding application with high weather and light fastness requirement

RECOMMENDED PRODUCTS

Lysopac Yellow 5110C

Standard grade

Lysopac Yellow 5110P

Improved dispersibility

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic printing inks: e.g. laminate

Heat fastness	5 (scale 1 to 5)
Light fastness**	7 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	1 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

PY155 • BISACETOACETARYLIDE YELLOW

MAIN CHARACTERISTICS

- Pigment Yellow 155 (C.I. 11785)
- Strong greenish medium Yellow shade
- Very high tinting strength & high transparency
- Suitable for demanding application with high weather and light fastness requirement
- Excellent overall fastness properties

Heat fastness	5 (scale 1 to 5)
Light fastness**	7 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: Liquid ink 8%.

RECOMMENDED PRODUCTS

Lysopac Yellow 5515C

Standard grade

Lysopure Yellow 5518P

High purity version (Low content in Primary Aromatic Amine)

Recommended for paste inks and for solvent packaging gravure and flexographic printing inks

PY170 • DIARYLIDE YELLOW

MAIN CHARACTERISTICS

- Pigment Yellow 170 (C.I. 21104)
- Very reddish Yellow offering high gloss
- Unique shade developed by Vibrantz
- Good dispersibility & hiding power

RECOMMENDED PRODUCTS

Lysopac Yellow 7010C

Standard opaque grade

Recommended for paste inks screen conventional and UV, metal deco and all application where opacity is needed

Heat fastness	5 (scale 1 to 5)
Light fastness**	7 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

PY181 • BENZIMIDAZOLONE YELLOW

MAIN CHARACTERISTICS

- Pigment Yellow 181 (C.I. 11777)
- Reddish medium opaque Yellow shade
- Excellent light and weather fastness properties and heat stability
- Very overall good properties

RECOMMENDED PRODUCTS

Lysopac Yellow 8113C

Standard grade

Recommended for paste inks and for solvent and water based packaging gravure and flexographic printing inks, metal deco, decorative laminate, UV curing, screen ink, sheetfed

Heat fastness	5 (scale 1 to 5)
Light fastness**	7-8 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: Liquid ink 8%.

PY194 • BENZIMIDAZOLONE YELLOW

MAIN CHARACTERISTICS

- Pigment Yellow 194 (C.I. 11785)
- Strong Greenish Yellow shade
- Excellent light and weather fastness properties and heat stability
- Opaque version with high tinting strength and good rheological properties

Heat fastness	5 (scale 1 to 5)
Light fastness**	6 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	4–5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	4 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Lysopac Yellow 9410C

Standard grade with high color strength

Recommended for paste inks and for solvent and water based packaging gravure and flexographic printing inks

PO13 • DISAZOPYRAZOLONE ORANGE

MAIN CHARACTERISTICS

- Pigment Orange 13 (C.I. 21110)
- Very clean yellowish Orange shade
- Semi-transparent version with medium light fastness property

RECOMMENDED PRODUCTS

Diacetanil Orange J 1323C

Standard grade

Recommended for paste inks and for water based packaging gravure and flexographic printing inks, metal deco, UV curing, sheetfed...

Heat fastness	4-5 (scale 1 to 5)
Light fastness**	3 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

PO34 • DISAZOPYRAZOLONE ORANGE

MAIN CHARACTERISTICS

- Pigment Orange 34 (C.I. 21115)
- Orange with a very clean shade & very bright impression
- Transparent version and very good rheology profile

Heat fastness	4-5 (scale 1 to 5)
Light fastness**	5-6 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	4-5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: Liquid ink 8%.

RECOMMENDED PRODUCTS

Diacetanil Orange R 3426C

Standard Orange reddish shade. High gloss and transparency with a very good rheology profile

Market standard

Diacetanil Orange T 3424C

Yellowish version shade

Diacetanil Orange 3427C HTT

Improved yellowish version in term of transparency and better rheology profile

Lysopure Orange 3428C

High purity version (Low content in Primary Aromatic Amine)

Lysopac Orange 3420C

Standard opaque grade

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic

PO36 • BENZIMIDAZOLONE ORANGE

MAIN CHARACTERISTICS

- Pigment Orange 36 (C.I. 11780)
- Reddish somewhat dull orange compare to PO64 and PO34
- Good rheological behavior and good opacity
- Coloristic suitable to replace red lead molybdates

Heat fastness	5 (scale 1 to 5)
Light fastness**	7-8 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	4-5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Lysopac Orange 3620C

Standard grade

Lysopac Orange 3621C

A slightly more bluish grade

Recommended for paste inks, metal deco, UV curing, screen ink

PO64 • BENZIMIDAZOLONE ORANGE

MAIN CHARACTERISTICS

- Pigment Orange 64 (C.I. 12760)
- Opaque Orange shade, cleaner and higher color strength compare PO36
- Excellent light and heat stability
- Very overall good properties

RECOMMENDED PRODUCTS

Lysopure Orange 6428C

High purity version (Low content in Primary Aromatic Amine)

Recommended for paste inks and for solvent and water based packaging gravure and flexographic printing inks, metal deco, UV curing, screen ink, sheetfed

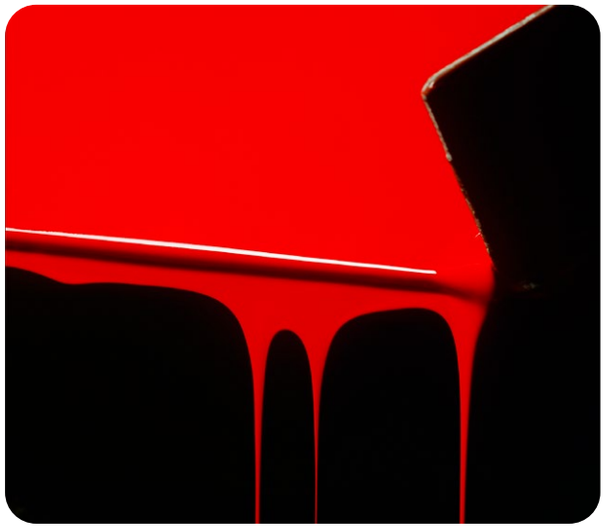
Heat fastness	5 (scale 1 to 5)
Light fastness**	6 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	3-4 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

PR2 • NAPHTHOL AS RED

MAIN CHARACTERISTICS

- Pigment Red 2 (C.I. 12310)
- Naphthol red with a Yellowish shade Semi-transparent grade
- Can be used as alternative to red 5315C with better end features
- Excellent Acid and alkali fastness



RECOMMENDED PRODUCTS

Naphthol Red GG 0233C

Yellowish grade

Naphthol Red G 0236C

Bluish grade

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic printing inks, UV inks...

Heat fastness	3-4 (scale 1 to 5)
Light fastness**	5 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	3-4 (scale 1 to 5)
Alcohol fastness	4-5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

PR48:1 • BONA, Ba LAKE RED

MAIN CHARACTERISTICS

- Pigment Red 48:1 (C.I. 15865:1) Barium laked pigment
- Vermilion shade pigment giving high intensity, gloss and transparency
- Both in solvent -and water- based inks offers excellent rheological properties and a perfect stability of shade

RECOMMENDED PRODUCTS

Bonithol Red BG 4813C

Standard grade

Bonithol Red HTR 4814C

Higher transparency and gloss compared to Red BG 4813C

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic printing inks, UV inks and metal deco...

Heat fastness	5 (scale 1 to 5)
Light fastness**	3-4 (scale 1 to 8)
Acid fastness	4 (scale 1 to 5)
Alkali fastness	3-4 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

PR48:2 • BONA, Ca LAKE RED

MAIN CHARACTERISTICS

- Pigment Red 48:2 (C.I. 15865:2) Calcium laked pigment
- Rubine shade pigment giving high intensity, gloss and transparency

Heat fastness	4 (scale 1 to 5)
Light fastness**	5-6 (scale 1 to 8)
Acid fastness	4 (scale 1 to 5)
Alkali fastness	4 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Bonithol Red BB 4822C

Standard grade

Recommended for paste inks as well as for solvent gravure and flexographic printing inks, UV inks and metal deco...

PR48:3 • BONA, Sr LAKE RED

MAIN CHARACTERISTICS

- Pigment Red 48:3 (C.I. 15865:3) Strontium laked pigment
- Semi-transparent grade, giving high intensity, gloss and transparency
- Both in solvent -and water- based inks offers excellent rheological properties and a perfect stability of shade
- Poor resistance to acid which is linked to his pigment class

RECOMMENDED PRODUCTS

Bonithol Red B 4834C

Standard grade with outstanding transparency and gloss

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic printing inks, UV inks...

Heat fastness	4 (scale 1 to 5)
Light fastness**	4 (scale 1 to 8)
Acid fastness	2-3 (scale 1 to 5)
Alkali fastness	4 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

PR48:4 • BONA, Mn LAKE RED

MAIN CHARACTERISTICS

- Pigment Red 48:4 (C.I. 15865:4) Manganese laked pigment
- Strong transparent bluish grade giving high intensity, gloss and transparency
- The Manganese can create some drying issue with oxidative binders

Heat fastness	5 (scale 1 to 5)
Light fastness**	6-7 (scale 1 to 8)
Acid fastness	3 (scale 1 to 5)
Alkali fastness	3-4 (scale 1 to 5)
Solvent fastness	4 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Bonithol Red BM 4846C

Bluish grade

Bonithol Red TR 4847C

Yellowish grade

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic printing inks, UV inks...

PR53:1 • BETA NAPHTHOL, Ba LAKE RED

MAIN CHARACTERISTICS

- Pigment Red 53:1 (C.I. 15585:1) Barium laked pigment
- Clean yellow shade barium beta naphthol lake pigment
- It has a high transparency and high gloss, giving high intensity with good rheological properties
- Excellent rheological properties and a perfect stability of shade (in solvent, water and UV base system)

Heat fastness	3 (scale 1 to 5)
Light fastness**	2 (scale 1 to 8)
Acid fastness	3-4 (scale 1 to 5)
Alkali fastness	3 (scale 1 to 5)
Solvent fastness	4-5 (scale 1 to 5)
Alcohol fastness	4-5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Lake Red 5315C

Standard grade with outstanding transparency and gloss

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic printing inks, UV inks...

PR81:5 • LUMIERE PINK S.M.

MAIN CHARACTERISTICS

- Pigment Red 81:5 (C.I. 45160:4)
- Complex salts of Rhodamine dye/ heteropolyacid S.M.
- Used for Excellent color brillance and clarity of hue and better fastness compare Cuproferric Salt with rhodamine dye
- Bluish red pigment close to Pantone rhodamine red C

Heat fastness	4-5 (scale 1 to 5)
Light fastness**	4 (scale 1 to 8)
Acid fastness	4-5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	3 (scale 1 to 5)
Alcohol fastness	4 (scale 1 to 5)

Resistance of Print. Light Fastness**: Liquid ink 8%.

RECOMMENDED PRODUCTS

Lumiere Pink SM 8135N

Standard grade suitable for offset ink, solvent base and UV curing can also be used in water based ink application

Lumiere Pink SM 8136N

Slight bluish version compare to Lumiere 8135N with the same end application as 8135N

Lumiere Pink SM 8137N

Most yellowish version with the same end application as 8135N

Recommended for solvent based, offset and water based inks

PR122 • QUINACRIDONE RED

MAIN CHARACTERISTICS

- Pigment Red 122 (C.I. 73915)
- Very clean bluish shade of quinacridone red, referred to as pink or magenta
- High tinting strength and good transparency with outstanding properties

Heat fastness	5 (scale 1 to 5)
Light fastness**	6-7 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Lysopac Red 2230C

Standard grade

Lysopac Red 2231C

More bluish Version compare to 2230C

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic printing inks, UV inks, screen....

PR146 • NAPHTHOL AS RED

MAIN CHARACTERISTICS

- Pigment Red 146 (C.I. 12485)
- Bluish Red shade pigment used as possible lightfast magenta
- More bluish version compare to PR266 with better light fastness

Heat fastness	5 (scale 1 to 5)
Light fastness**	5-6 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	4-5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Naphthol Carmine 4635C

Standard transparent bluish grade

Naphthol Carmine 4637C

Semi transparent grade for ink jet application

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic printing inks, UV inks, screen, metal deco...

PR170 • NAPHTHOL AS RED

MAIN CHARACTERISTICS

- Pigment Red 170 (C.I. 12475)
- Medium Red shade with better resistance compare to Red 2
- Semi-transparent grade from yellowish to bluish shade

Heat fastness	5 (scale 1 to 5)
Light fastness**	6-7 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Naphthol Red B 7032C

Standard semi-transparent bluish grade

Naphthol Red 7034C

More yellowish semi-transparent grade

Lysopure Red 7038C

High purity version bluish shade (Low content in Primary Aromatic Amine)

Lysopure Red 7039C

High purity version yellowish shade (Low content in Primary Aromatic Amine)

Lysopac Red 7030C

More yellowish and opaque version

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic printing inks, UV inks, screen, metal deco...

PR176 • BENZIMIDAZOLONE RED

MAIN CHARACTERISTICS

- Pigment Red 176 (C.I. 12515)
- Blue shade benzimidazolone pigment
- It has excellent overall fastness properties
- High level of gloss and transparency

RECOMMENDED PRODUCTS

Carmine HT 7635C

Standard grade

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic printing inks, UV inks, screen, and metal deco

Heat fastness	5 (scale 1 to 5)
Light fastness**	6-7 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

PR184 • NAPHTHOL AS RED

MAIN CHARACTERISTICS

- Pigment Red 184 (C.I. 12487)
- Bluish Red shade pigment used also as possible lightfast magenta
- Most bluish version with overall properties close to PR 146 and better Light fastness compare to PR147

Heat fastness	4-5 (scale 1 to 5)
Light fastness**	5-6 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	4-5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.

RECOMMENDED PRODUCTS

Naphthol Carmine 6B 8435C

Standard transparent bluish grade

Lysopure Red 8438C

High purity version (Low content in Primary Aromatic Amine)

Lysopure Red 8439C

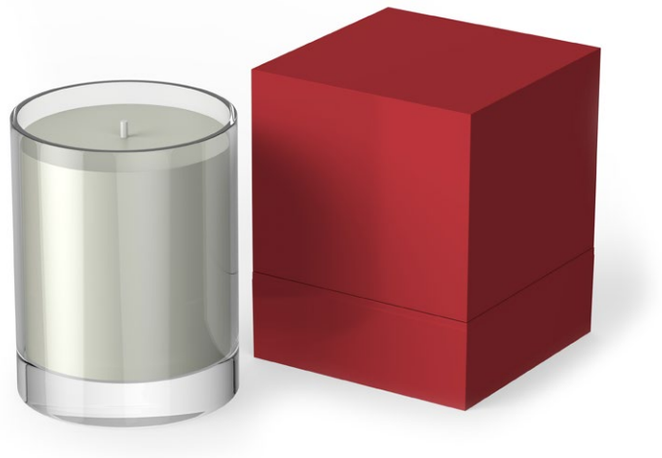
High purity version (Low content in Primary Aromatic Amine)

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic printing inks, UV inks, screen...

PR266 • NAPHTHOL AS RED

MAIN CHARACTERISTICS

- Pigment Red 266 (C.I. 12474)
- Bluish Red shade compare to PR170
- Transparent grade with overall properties similar to PR170



RECOMMENDED PRODUCTS

Naphthol Red 4B 7035C

Standard transparent bluish grade

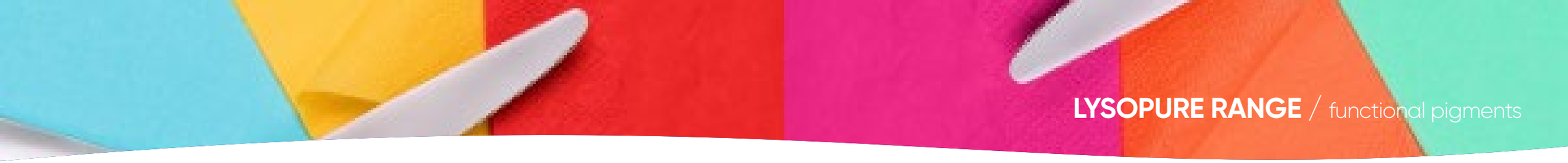
Naphthol Red 4B 7036C

Standard grade for Ink jet application

Recommended for paste inks as well as for solvent and water based packaging gravure and flexographic printing inks, UV inks, screen, metal deco...

Heat fastness	5 (scale 1 to 5)
Light fastness**	4-5 (scale 1 to 8)
Acid fastness	5 (scale 1 to 5)
Alkali fastness	5 (scale 1 to 5)
Solvent fastness	4-5 (scale 1 to 5)
Alcohol fastness	5 (scale 1 to 5)

Resistance of Print. Light Fastness**: 20% offset ink.



LYSOPURE RANGE

LYSOPURE'S HIGH CHEMICAL PURITY HELPS KEEP FOOD PACKAGING SAFE

Primary aromatic amines (PAA) occur as contaminants in azo pigments and may pose a health risk if they migrate into food from colored food contact materials such as packaging and napkins. Numerous international regulations exist including the European Union regulation (No 10/2011) and the Swiss ordinance on materials and articles (817.023.21), have been implemented specifically to prohibit the release of PAAs into food in detectable quantities.

To minimize this risk of potential exposure to harmful substances subject to migration, Vibrantz has developed the Lysopure high purity line of organic pigments for use in indirect food contact packaging.

The range of pure pigments used in Vibrantz Lysopure is based on a strict selection of raw materials, advanced processing techniques, and an internal quality control process performed on every batch. Only those food contact materials listed as approved substances are used; each batch is systematically checked for PAA, polychlorinated biphenyl (PCB), and non-intentionally added substances (NIAS) in the pigment content.

PLENTY OF COLOR POSSIBILITIES

Lysopure is currently available in eight different color Indexes ranging from greenish-yellow to bluish red, allowing for full coverage of the color spectrum.

In addition to excellent aesthetic effects, the high purity profile of Lysopure pigments allows Vibrantz's customers the following advantages:

- Meet more stringent and ever-evolving regulations in terms of possible migration.
- Give their customers a secure statement regarding the inks being used, as PAA content is monitored and only approved additives are implemented.

Lysopure is ideal for use in tissue ink and bakery paper. It can also be used in any application in which the purity profile is of concern, such as indirect food contact packaging, finger paints, non-woven materials, and other plastic applications.

PRODUCTS

- **PY13**: Lysopure Yellow 1318C & 1319C
- **PY74**: Lysopure Yellow 7418C
- **PY111**: Lysopure Yellow 1118C
- **PY155**: Lysopure Yellow 5518P
- **PO34**: Lysopure Orange 3428C
- **PO64**: Lysopure Orange 6428C
- **PR170**: Lysopure Red 7038C & 7039C
- **PR184**: Lysopure Red 8438C & 8439C

APPLICATIONS GUIDE

	BLUE PIGMENTS	Reference	Solvent based ink	Water based ink	Offset sheet-fed ink	UV curing	Metal deco	Screen ink	Ink jet
PB1	Lumiere Blue P.T.M	0151N	x	x	••	••		x	
PB1	Lumiere Blue P.T.M	0153N	••	x	•	•		x	
PB1	Lumiere Blue P.T.M	0154N	x	••	•	•		x	
PB1	Lumiere Blue P.T.M	0155N	••	••	• •	••		x	
PB15:1	Phthalocyanine Blue	1511C	•	••	x	••	x	••	
PB15:3	Phthalocyanine Blue	1532C	•	•	• •	••	••	••	
PB15:3	Phthalocyanine Blue	1533C	••	•	x	•	x	••	

	VIOLET PIGMENTS	Reference	Solvent based ink	Water based ink	Offset sheet-fed ink	UV curing	Metal deco	Screen ink	Ink jet
PV2	Lumiere Pink S.M	0245N	•	•	••	•		x	
PV3	Lumiere Violet P.T.M	0345N	••	•	••	••		x	
PV3:4	Lumiere Violet P.T.M	0347N	•	x	••	••		x	
PV3:4	Lumiere Violet P.M	0348N	••	•	•	••		x	
PV19	Quinacridone Violet	1940C	•	•	•	•	x	•	
PV19	Quinacridone Violet	1941C	•	•	•	•	x	•	
PV23	Dioxazine Violet	2341C	•	••	••	••	••	•	

	GREEN PIGMENTS	Reference	Solvent based ink	Water based ink	Offset sheet-fed ink	UV curing	Metal deco	Screen ink	Ink jet
PG7	Phthalocyanine Green	0762C	•	••	••	•	••	••	

•• Highly recommended • Recommended x limited suitability (no data) Not recommended or not tested

APPLICATIONS GUIDE

	YELLOW PIGMENTS	Reference	Solvent based ink	Water based ink	Offset sheet-fed ink	UV curing	Metal deco	Screen ink	Ink jet
PY3	Monoazo Yellow	0314C	•	••	••	•		•	
PY13	Diarylide Yellow	1314C	•	••	••	•	•	x	
PY13	Diarylide Yellow	1318C	•	••	••	•	•	x	
PY13	Diarylide Yellow	1319C	•	••	x	•	x	x	
PY14	Diarylide Yellow	1414C	•	••	•	•	x		
PY17	Diarylide Yellow	1715C	••	••	••	•	•	•	
PY73	Monoazo Yellow	7312C	•	••	••	••		••	
PY74	Monoazo Yellow	7412C	••	••	•	•		•	•
PY74	Monoazo Yellow	7414C	••	••	••	••		•	
PY74	Monoazo Yellow	7415C	x	••	•	••		••	
PY74	Monoazo Yellow	7418C	••	••	•	•		•	•
PY83	Diarylide Yellow	8315C	••	••	•	•	•	x	
PY83	Diarylide Yellow	8316C	••	••	••	••	••	••	
PY83	Diarylide Yellow	8317C	••	x	••	•	•	•	
PY83	Diarylide Yellow	8318C	••	•	••	•	•	•	•
PY83	Diarylide Yellow	8319C	••	x	x	••	x	x	
PY83	Diarylide Yellow	8312S	•	•	•	••	x	••	
PY110	Isoindolinone Yellow	1010C	•	••	x	••	••	••	•
PY111	Monoazo Yellow	1115C	••	••	••	••		••	
PY111	Monoazo Yellow	1118C	•	••	x	x		x	
PY151	Benzimidazolone Yellow	5110C	•	•	••	••	••	••	•
PY155	Bisacetoacetarylide Yellow	5515C	••	•	••	••	••	•	
PY155	Bisacetoacetarylide Yellow	5518P	•	••	•	••	x	x	•
PY170	Diarylide Yellow	7010C	x	••	x	•		••	
PY181	Benzimidazolone Yellow	8113C	••	••	•	•		•	
PY194	Benzimidazolone Yellow	9410C	•	••	•	••	•	••	

•• Highly recommended • Recommended x limited suitability (no data) Not recommended or not tested

APPLICATIONS GUIDE

	ORANGE PIGMENTS	Reference	Solvent based ink	Water based ink	Offset sheet-fed ink	UV curing	Metal deco	Screen ink	Ink jet
PO13	Disazopyrazolone Orange	1323C	••	••	••	••	•		
PO34	Disazopyrazolone Orange	3420C	•	••	••	••	•	••	
PO34	Disazopyrazolone Orange	3424C	••	••	••	••	x	x	
PO34	Disazopyrazolone Orange	3426C	••	••	••	••	x	x	
PO34	Disazopyrazolone Orange	3427C	••	••	•	••	x	x	•
PO34	Disazopyrazolone Orange	3428C	••	••	••	••	x	x	
PO36	Benzimidazolone Orange	3620C	•	••	x	••	••	••	
PO64	Benzimidazolone Orange	6428C	•	••	••	••	••	•	•

•• Highly recommended • Recommended x limited suitability (no data) Not recommended or not tested

APPLICATIONS GUIDE

	RED PIGMENTS	Reference	Solvent based ink	Water based ink	Offset sheet-fed ink	UV curing	Metal deco	Screen ink	Ink jet
PR2	Naphthol AS Red	0233C	••	••	••	••			
PR2	Naphthol AS Red	0236C	•	••	•	•			
PR48:1	BONA, Ba Lake Red	4813C	••	••	•	••	•	x	
PR48:1	BONA, Ba Lake Red	4814C	••	••	••	••	••	x	
PR48:2	BONA, Ca Lake Red	4822C	••	x	••	••	••	x	
PR48:3	BONA, Sr Lake Red	4834C	•	••	••	••	x	x	
PR48:4	BONA, Mn Lake Red	4846C	••	x	••	••	••	••	
PR48:4	BONA, Mn Lake Red	4847C	••	x	••	••	x	••	
PR53:1	Beta Naphthol, Ba Lake Red	5315C	•	••	••	••	••	x	
PR81:5	Lumiere Pink S.M.	8135N	••	•	••	••			
PR81:5	Lumiere Pink S.M.	8136N	••	•	•	••			
PR81:5	Lumiere Pink S.M.	8137N	••	•	•	••			
PR122	Quinacridone Red	2230C	••	••	••	••	•	••	
PR122	Quinacridone Red	2231C	••	••	••	••	•	••	
PR146	Naphthol AS Red	4635C	••	••	••	••	•	••	•
PR146	Naphthol AS Red	4637C	••	••	x	•	•	•	•
PR170	Naphthol AS Red	7030C	••	••	•	••	•	••	
PR170	Naphthol AS Red	7032C	••	••	••	••	••	••	
PR170	Naphthol AS Red	7034C	••	••	••	••	•	••	
PR170	Naphthol AS Red	7038C	••	••	••	••	••	••	
PR170	Naphthol AS Red	7039C	•	••	•	•	x	x	
PR176	Benzimidazolone Red	7635C	••	••	•	••	••	•	
PR184	Naphthol AS Red	8435C	••	•	••	••	•	••	
PR184	Naphthol AS Red	8438C	•	••	••	••	•	•	
PR184	Naphthol AS Red	8439C	•	••	•	•	x	•	
PR266	Naphthol AS Red	7035C	••	••	•	••	x	••	
PR266	Naphthol AS Red	7036C	••	x	x	••	x	x	•

•• Highly recommended • Recommended x limited suitability (no data) Not recommended or not tested

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