



UPBRIGHT

INDUSTRIAL COLORANTS / PRODUCT GUIDE

DAYLIGHT FLUORESCENT PIGMENTS

A practical grade-selection guide for plastics, coatings, inks, textiles and specialty color systems.



Reliable color, built around the application

UPBRIGHT CHEMICAL LTD supplies organic pigments, solvent dyes and fluorescent pigments for industrial color systems. We confirm the medium, process conditions, target shade and key performance requirements before recommending a grade.

WHAT WE SUPPORT

From initial matching to repeat supply.

Our work combines product selection, application sampling, batch control and export documentation. Recommendations are verified in the customer's actual formulation before commercial supply.

01 APPLICATION REVIEW

Medium, temperature, process and end-use exposure.

02 SAMPLE MATCHING

A focused shortlist supported by technical information.

03 BATCH CONTROL

Approved reference, batch record and retained sample.

04 EXPORT SERVICE

TDS, SDS, COA, packing and shipment documentation.



Production site and process environment / Company images



8,000 t/y

organic pigment capacity

5,000 t/y

solvent dye capacity

ISO 9001

quality management

English product range

Use the series pages as a technical shortlist. Final grade selection should be confirmed in the actual formulation, process and end-use conditions.

SERIES	TYPICAL APPLICATION SYSTEMS	PAGE
HX	Injection-molded plastics below 200 °C; clay, crayons and water-based coatings	04
HB	Low-temperature plastics, PE blow molding, masterbatch and fiber forming	05
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HZQ	High-temperature plastics, fiber forming and masterbatch	08
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HT	Water-based textile printing, paper coatings and latex systems	11
SSP-200	Textile printing, water-based coatings, PVC coating and craft paints	12
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HSQ	Coatings, inks, PVC systems, masterbatch, TPR and TPE	14
HST	Coatings, inks, masterbatch, rubber and EVA foam	15
HSA	Paper and PVC coatings, inks and organic-solvent dispersions	16
LWF / LWA	Water-based textile, coating, ink, highlighter and art-paint systems	17
LNT	Solvent-soluble toners for flexographic and gravure packaging inks	18

SELECTION NOTE

Confirm compatibility, processing temperature, migration, solvent resistance and lightfastness in your own system.

HX Series Fluorescent Pigments

Colors

Lemon yellow HX-10

Pink HX-11

Cerise HX-12

Red HX-13

Red orange HX-14

Orange HX-15

Orange yellow HX-16

Yellow HX-17

Green HX-18

Blue HX-19

Violet HX-20

Magenta HX-21

Features and Benefits

HX Series is a most widely used fluorescent pigment designed with strongest color strength, best fluorescence and easily dispersed for injection molded plastics where processing temperature is below 200 °C .

Applications

- Injection molded plastics(PP/PE/PVC) below 200 °C
- Clay coloring, crayons, colored sand,etc
- Water based coating

Physical & Chemical Properties

Full shade (compared with the standard)	similar
Color strength (compared with the standard)	100±5%
Average Particle Size	≤15µm
Softening Point	≥105 °C
Processing Temperature	≤220 °C
Oil Absorption	56g oil/100g pigments



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HB Series Fluorescent Pigments

Features and Benefits

HB series is a formaldehyde free fluorescent pigment for plastics of low temperature processing, low plate-out and cost effectively. HB Series is easily melt in the coloring of various plastics with excellent performance in pigmentation, equality, brightness and vividness.

Applications

- PE blow molding, masterbatch
- Coloring for various plastics
- Fiber forming

Physical & Chemical Properties

Full shade (compared with the standard)	similar
Color strength (compared with the standard)	100±5%
Average Particle Size	≤100μm
Softening Point	≥80℃
Processing Temperature	135℃ - 220℃
Oil Absorption	56g oil/100g pigments



Colors

Pink HB-101

Cerise HB-102

Red HB-103

Red orange HB-104

Orange HB-105

Orange yellow HB-106

Yellow HB-107

Green HB-108

Magenta HB-111

(High Strength) Magenta HB-321

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HK Series Fluorescent Pigments

Features and Benefits

HK Series is formaldehyde free fluorescent pigment for plastics of low temperature processing, low plate-out and cost effectively. HK Series is easily melt in the coloring of various plastics with excellent performance in pigmentation, equality, brightness and vividness.

Applications

- Extrusion, injection moldings, blow molding, Masterbatch
- PP, PE, PVC plastic coloring
- Powder coating

Physical & Chemical Properties

Full shade (compared with the standard)	similar
Color strength (compared with the standard)	100±5%
Average Particle Size	≤100μm
Softening Point	≥75℃
Processing Temperature	190℃ - 220℃
Oil Absorption	56g oil/100g pigments



Colors

Pink HK-11

Cerise HK-12

Red HK-13

Red orange HK-14

Orange HK-15

Orange yellow HK-16

Yellow HK-17

Green HK-18

Violet HK-20

Magenta HK-21

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HZ Series Fluorescent Pigments

Features and Benefits

HZ pigments have excellent brightness, good heat stability and less plate-out. They are recommended for applications of injection, blow moldings, extrusion where excellent heat stability, strong colors and light fastness are needed as well as no formaldehyde release. HZ pigments are compatible with various types of plastics.

Applications

- Coloring for various plastics
- Injection moldings, blow moldings etc.

Physical & Chemical Properties

Full shade (compared with the standard)	similar
Color strength (compared with the standard)	100±5%
Average Particle Size	≤100μm
Softening Point	≥120℃
Processing Temperature	180℃ -260℃
Oil Absorption	56g oil/100g pigments

Colors

Pink HZ-11

Cerise HZ-12

Red HZ-13

Red orange HZ-14

Orange HZ-15

Orange yellow HZ-16

Yellow HZ-17

Green HZ-18

Violet HZ-20

Magenta HZ-21



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HZQ Series Fluorescent Pigments

Features and Benefits

HZQ Pigments are developed for plastic applications, where good heat stability and lower mold plate-outs are needed. Excellent heat-stability up to 280 °C, and no formaldehyde out gassing. They also are good in color strength and bright shades.

Applications

- Coloring for various high temperature plastics, Fiber forming, Masterbatch
- Injection moldings, blow moldings etc.

Physical & Chemical Properties

Full shade (compared with the standard)	similar
Color strength (compared with the standard)	100±5%
Average Particle Size	≤30μm
Softening Point	135 °C-145 °C
Processing Temperature	180 °C -280 °C
Oil Absorption	56g oil/100g pigments

Colors

Pink HZQ-11

Cerise HZQ-12

Red HZQ-13

Red orange HZQ-14

Orange HZQ-15

Orange yellow HZQ-16

Yellow HZQ-17

Violet HZQ-20

Magenta HZQ-21



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HP Series Fluorescent Pigments

Colors

Lemon yellow HP-10

Green HP-11

Orange yellow HP-12

Orange HP-13

Red orange HP-14

Red HP-15

Cerise HP-16

Pink HP-17

Magenta HP-18

Blue HP-19

White HP-20

Violet HP-22

Features and Benefits

HP Series fluorescent pigments are based on thermoset resin, and for a wide range of solvent-based formulations with good heat stability. They are suitable for inks, coatings, PVC plastisols where improved resistance to polar solvents is needed

Applications

- Printing inks
- Fluorescent paints, aerosol paints
- PVC coloring
- Powder coating coloring

Physical & Chemical Properties

Full shade (compared with the standard)	similar
Color strength (compared with the standard)	100±5%
Average Particle Size	≤5μm
Softening Point	≥200℃
Oil Absorption	≤65g oil/100g pigments



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HFT Series Fluorescent Pigments

Features and Benefits

HFT Series fluorescent pigments are based on thermoset resin, with excellent solvent resistance to most common solvents intense fluorescence, excellent brightness and color strength.

Applications

- Solvent based inks and paper printing coatings
- Waxes and candles coloring
- Color paste coating

Physical & Chemical Properties

Full shade (compared with the standard)	similar
Color strength (compared with the standard)	100±5%
Average Particle Size	≤5μm
Softening Point	180℃
Processing Temperature	≥ 200℃
Oil Absorption	≤65g oil/100g pigments

Colors

Pink HFT-801

Lemon yellow HFT-802

Red orange HFT-804

Orange HFT-805

Green HFT-806

Magenta HFT-808

Red HFT-811

Chinese Red HB-33



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HT Series Fluorescent Pigments

Colors

Pink HT-801

Lemon yellow HT-802

Yellow HT-803

Red orange HT-804

Orange HT-805

Green HT-806

Violet HT-807

Magenta HT-808

Blue HT-809

Sky blue HT-810

Red HT-811

Gold yellow HT-812

Cerise HT-816

Features and Benefits

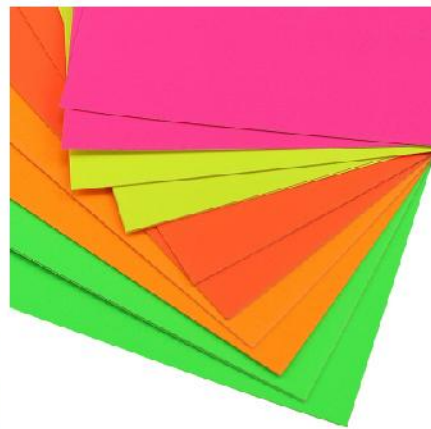
HT is a series of fluorescent pigments designed for applications in which strong coloring strength and excellent brightness are required, with very fine particle size and uniform color. It can be used in paper coatings and fabric coatings.

Applications

- Water-based textile printings
- Water-based coatings, Paper coatings
- Some water-based latex systems
- Art paints, Clay coloring

Physical & Chemical Properties

Full shade (compared with the standard)	similar
Color strength (compared with the standard)	100±5%
Average Particle Size	≤5μm
Softening Point	≥120℃
Oil Absorption	65g oil/100g pigments



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SSP-200 Series Fluorescent Pigments

Colors

Lemon Yellow SSP-210

Pink SSP-211

Red SSP-213

Red orange SSP-214

Orange SSP-215

Orange yellow SSP-216

Yellow SSP-217

Green SSP-218

Magenta SSP-221

Features and Benefits

SSP-200 Series are newly developed formaldehyde-free fluorescent pigments with fine particle size and good brightness for applications like textile printings and PVC coating. SSP-200 can meet requirements for no formaldehyde content and make the use more earth-human-friendly.

Applications

- Textile printings
- Water-based coatings
- PVC coating
- Craft and hobby paints

Physical & Chemical Properties

Full shade (compared with the standard)	similar
Color strength (compared with the standard)	100±5%
Average Particle Size	≤5μm
Softening Point	≥140℃
Oil Absorption	65g oil/100g pigments



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SSP-300 Series Fluorescent Pigments

Colors

Pink SSP-311

Cerise SSP-312

Red SSP-313

Red orange SSP-314

Orange SSP-315

Orange yellow SSP-316

Yellow SSP-317

Green SSP-318

Blue SSP-319

Violet SSP-320

Magenta SSP-321

Features and Benefits

SSP-300 series is formaldehyde free daylight fluorescent pigments exhibiting increased color strength, superior reflection, significantly improved light fastness when compared to traditional fluorescent pigments.

Applications

- Screen printing inks, water based or weak solvent based coatings
- Textile printings
- Aerosol paints, craft and hobby paints, crayons

Physical & Chemical Properties

Full shade (compared with the standard)	similar
Color strength (compared with the standard)	100±5%
Average Particle Size	≤5μm
Softening Point	≥160℃
Oil Absorption	65g oil/100g pigments



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HSQ Series Fluorescent Pigments

Colors

Pink HSQ-11

Cerise HSQ-12

Red HSQ-13

Red orange HSQ-14

Orange HSQ-15

Orange yellow HSQ-16

Yellow HSQ-17

Green HSQ-18

Blue HSQ-19

Violet HSQ-20

Magenta HSQ-21

Features and Benefits

HSQ Series fluorescent pigment adopts microsphere technology. Solid solution of dyestuffs in a thermoset resin, with excellent brightness, color strength, intense fluorescence and anti-adhesion performance. These pigments are especially recommended for applications demanding high resistance to polar solvent, plasticizers, heat, pressure and migration, possess high color intensity and strength, good light-fastness and outstanding brilliance, with wide color range, it's universal in various applications.

Applications

- Various coatings, inks, paints, and powder coating coloring
- PVC Color cake, PVC color paste, PVC color sand and leather coloring
- PP, PE, PVC masterbatch and TPR, TPE, etc.
- Other areas with high requirements for mobility

Physical & Chemical Properties

Full shade (compared with the standard)	similar
Color strength (compared with the standard)	100±5%
Average Particle Size	≤3μm
Decomposition Point	≥250℃
Oil Absorption	65g oil/100g pigments



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HST Series Fluorescent Pigments

Colors

Lemon yellow HST-10

Pink HST-11

Cerise HST-12

Red HST-13

Red orange HST-14

Orange HST-15

Orange yellow HST-16

Yellow HST-17

Green HST-18

Blue HST-19

Violet HST-20

Magenta HST-21

Features and Benefits

HST Series fluorescent pigment adopts microsphere technology. HST Series have strong tinting strength, broad compatibility, excellent resistance to bleeding, anti-adhesion performance and very low formaldehyde.

When applied in inks, there have been significant improvements in solvent resistance, excellent migration resistance. When applied in plastics, excellent heat resistance, non-plate out is greatly improved compared to traditional fluorescent pigments. In vulcanization and foaming processes such as rubber and EVA, it also has excellent color development performance.

Applications

- Various coatings, inks, paints, and powder coating coloring
- Color cake, color paste, and leather coloring
- PP, PE, PVC masterbatch and TPR, TPE, rubber and EVA foam coloring
- Other areas with high requirements for mobility

Physical & Chemical Properties

Full shade (compared with the standard)	similar
Color strength (compared with the standard)	100±5%
Average Particle Size	≤3μm
Decomposition Point	≥270℃
Oil Absorption	65g oil/100g pigments



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HSA Series Fluorescent Pigments

Colors

Lemon yellow HSA-117

Pink HSA-101

Red HSA-103

Red orange HSA-104

Orange HSA-105

Orange yellow HSA-106

Yellow HSA-107

Green HSA-108

Violet HSA-110

Magenta HSA-111

Features and Benefits

HST Series fluorescent pigment adopts microsphere technology. HST Series have excellent solvent resistance, migration resistance, good heat stability and coloring strength. It suitable for various water-based and oil-based paper coatings, textile printing ink, relief ink, gravure ink, screen printing ink, PVC coating, paint and other applications.

Applications

- Various coatings, inks, paints, paper, PVC films
- Dispersion coloring in various organic solvents
- Other areas with high requirements for mobility

Physical & Chemical Properties

Full shade (compared with the standard)	similar
Color strength (compared with the standard)	100±5%
Average Particle Size	≤3μm
Decomposition Point	≥260℃
Oil Absorption	65g oil/100g pigments



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LWF/LWA Emulsion based Fluorescent Pigments

Colors

Pink LWF-11

Cerise LWF-12

Red LWF-13

Red orange LWF-14

Orange LWF-15

Orange yellow LWF-16

Yellow LWF-17

Green LWF-18

Blue LWF-19

Violet LWF-20

Magenta LWF-21

Features and Benefits

LWF/LWA series is based on an unique formaldehyde free pigment technology and aqueous dispersion of fluorescent pigments which have fine sub-micron particle size with narrow distribution, brightness, high tinting strength, and can be widely used in aqueous systems.

Applications

- Water based textiles dying or printing
- Water based coatings, Water based inks
- Highlighter ink, poster inks
- Clay coloring, art paints

Physical & Chemical Properties

Full shade (compared with the standard)	similar
Color strength (compared with the standard)	100±5%
Average Particle Size	≤0.5μm
Solid content (LWF)	≥40±5%
Solid content (LWA)	≥30±5%
PH value	5~7



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LNT Solvent Soluble Toners

Colors

Lemon yellow LNT-10

Pink LNT-11

Red LNT-13

Red orange LNT-14

Orange LNT-15

Orange yellow LNT-16

Yellow LNT-17

Green LNT-18

Blue LNT-19

Violet LNT-20

Magenta LNT-21

Features and Benefits

LNT Solvent Soluble Toners are high strength, good transparent, high adhesive pigments which are soluble in many solvents for flexographic and gravure applications on packaging, plastic films, papers and foils. They are compatible with many binders, such as alcohol soluble with nitrocellulose, polyamide, polyurethane to form fluorescent inks.

Applications

- Gravure inks, Flexographic inks, Industrial inks
- PET foil film, gift paper, and various product packaging

Physical & Chemical Properties

Full shade (compared with the standard)	similar
Color strength (compared with the standard)	100±5%
Average Particle Size	≤200μm
Softening Point	80~90℃
Appearance	Colored Granular Powder
General Solubility	Soluble in alcohols, esters, MEK, etc.



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Reference control before batch release

Quality checks are selected by product and application. Results are compared with an approved reference and recorded with the batch information.



01 Incoming material

Identity, appearance and lot information are recorded.

02 Standard preparation

Standard and batch use the same dosage and method.

03 Shade & strength

Instrumental and visual comparison are reviewed together.

04 Application check

The test medium and process follow the intended use.

05 Result review

Heat, migration or solvent resistance is checked as required.

06 Release record

COA, batch number and retained sample remain traceable.

DOCUMENTATION & SUPPORT

TDS / SDS / COA / Sample support / Application feedback

Share the medium, process temperature, target shade and key fastness requirements for a focused recommendation.



TECHNICAL & COMMERCIAL SUPPORT

LET'S MATCH THE RIGHT GRADE

Send the current grade, application medium, processing conditions and target shade. We will reply with a focused shortlist and the relevant technical documents.

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Coloring the world, Brightening the future.

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