



Pigment Paste Product Catalog

COLORING BOOK · Pigments · Color Pastes · Colorants · Additives

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COMPANY PROFILE

ABOUT DENSON

Founded in 2015, **DENSON Functional Materials Co., Ltd.** is a professional color paste manufacturer integrating R&D, production, sales and service. We are committed to providing customers with reliable, safe and high-quality products and services.

Adhering to the philosophy of **"Forging ahead, pursuing excellence, innovating continuously,"** we strive to create competitive advantages and value for our customers. Denson appreciates your choice and trust, and is honored to join hands with you for win-win cooperation.

Product Positioning

Our eco-friendly solvent-based color pastes, water-based color pastes and metal-complex solvent-based colorants are manufactured from carefully selected high-quality pigments and specially formulated high-efficiency dispersants, processed through fine dispersion and ultra-fine nano-grinding technology. They feature stable quality, bright and pure shades, strong tinting strength, broad versatility, and excellent compatibility with various paint systems — widely used in textile printing, stationery inks, paper, adhesive tapes, latex products, architectural coatings, wood, glass, plastic, metal and baking enamel coatings.



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BLACK PASTE SERIES

OIL-BASED · WATER-BASED · BLACK COLORANTS

Our black paste series covers solvent-based, water-based and dye-based black colorants for automotive interiors, industrial coatings, UV systems and epoxy applications — delivering high hiding power, deep jet-black shades and excellent weatherability. An integrated R&D, manufacturing and trading enterprise serving high-tech industries and industrial coating with high-performance material solutions.

Black Paste Product Advantages

OIL-BASED · WATER-BASED · BLACK ESSENCE



OIL-BASED BLACK PASTE

Ref	Model	Type	C.I.	Pigment	Temp	Notes
	FLTY-1000	General Black	MA100	20%	160°C	800nm nano grade, blue shade, low viscosity, good flow, high gloss
	FLTY-1009	Thermoset Blue-Black	MA100	20%	180°C	Thermoset acrylic carrier, blue shade, good flow, high gloss
	FLTY-1300	General Black 6	Orion SB6	15%	160°C	High-color carbon black paste; Orion Special Black 6
	FLAC-1100	Thermoplastic Black	Orion	20%	120°C	Thermoplastic acrylic carrier, alcohol-resistant, high gloss
	FLAC-105	Thermoplastic Blue-Black	BK2	20%	120°C	Thermoplastic acrylic carrier, blue shade, alcohol-resistant
	RFNC-1007	Resin-Free Black	BK7	30%	260°C	30% pigment content, high-hiding black
	RFNC-1003	Resin-Free Blue-Black	BK7	25%	260°C	Eco-friendly solvent-based black paste, broad compatibility
	RFNC-1004	Full-Hiding Insulating Black	BK7	40%	260°C	Eco-friendly solvent-free resin-black paste, broad compatibility
	RFNC-1006	Resin-Free Black	BK7	15%	260°C	Compatible with Special Black 6, broad compatibility
	RFNC-1005	Resin-Free Intl. Black	BK7	15%	260°C	FW200 ultra-high structure high-color black paste, high transparency
	RFNC-5000	Resin-Free Ultra-Black	BK7	15%	260°C	Evonik 5000 carbon black, ultra-high structure high-color paste
	EP-966	Epoxy Black	Imp. Carbon	30%	280°C	Imported Cabot carbon black, high pigment content
	EP-988	Epoxy Special Black	Imp. Carbon	15%	300°C	High-color carbon black; automotive-grade black pigment
	FLUV-1305	UV Special Black	Imp. Carbon	30%	260°C	Imported Cabot carbon black, high pigment content
	BK7	Nano Transparent Black	Imp. Carbon	20%	280°C	150nm fineness, grade 8 outdoor, 5 years no fading
	RFNC-1002	Resin-Free Organic Black	BK7	15%	260°C	UV absorption, IR reflection

WATER-BASED BLACK PASTE

Ref	Model	Type	C.I.	Pigment	Temp	Notes
	WT-1300W	Water-Soluble Black	PBK7	35%	240°C	Lightfastness 8, migration 5, excellent alcohol resistance
	WT-1900W	Water-Soluble Black	PBK7	35%	240°C	Lightfastness 8, migration 5, excellent alcohol resistance
	GT-6017	Pure Water Black	M100	45%	240°C	Lightfastness 8, migration 5, high pigment content

BLACK ESSENCE / DYE SERIES

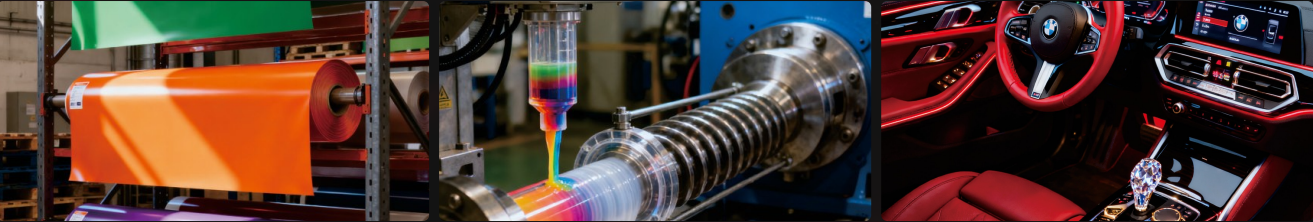
Ref	Model	Color	Type	Pigment	Temp	Notes
	DS-B128	Pure Black 55	Oil-based	30%	160°C	Metal-complex high-transparency dye, strong tinting, high concentration
	DS-B104	Blue-Black 34	Oil-based	30%	160°C	Metal-complex high-transparency dye, strong tinting, high concentration
	DS-B120	Red-Black 27	Oil-based	30%	160°C	Metal-complex high-transparency dye, strong tinting, high concentration
	WS-K28	Pure Black	Water/Oil	30%	180°C	Water-oil universal, high-temp resistant, strong tinting, high concentration

RFNC PIGMENT PASTE

RESIN-FREE NANO PIGMENT PASTE · ECO · LOW-ODOR · UNIVERSAL

Resin-free formulation avoids reactions with end-use resins. Carefully selected eco-friendly solvents and dispersants ensure compatibility with most common solvent-based resin systems (acrylic, polyurethane, epoxy, etc.).

High pigment concentration, strong tinting strength and excellent long-term storage stability. Widely used in industrial coatings, flexographic/gravure inks, and plastic coloring (PVC, ABS solvent-based masterbatch).



RFNC Resin-Free Universal Color Paste

ECO-FRIENDLY · LOW-ODOR · UNIVERSAL

Halogen note: "ND" means no halogen-containing raw materials are intentionally added in the formulation. The product does not guarantee absolute halogen-free status under all environmental conditions. For reference only.

Mass	Tone	Tint	Model	Color	C.I.	Pigment	Halogen
			RFNC-1007	Jet Black	BK7	45%	ND
			RFNC-1003	Blue-Black	BK7	40%	ND
			RFNC-1004	Full-Hiding Insulating Black	BK7	55%	ND
			RFNC-1006	Special Black	BK7	35%	ND
			RFNC-1005	High-Color Intl. Black	FW200	30%	ND
			RFNC-5000	Ultra-Black	BK7	30%	ND
			RFNC-9002	Titanium White	W6	80%	ND
			RFNC-8225	Brilliant Yellow	P.Y.151	45%	ND
			RFNC-8223T	High-Trans Golden Yellow	P.Y.150	25%	ND
			RFNC-8227T	High-Trans Medium Yellow	P.Y.180	30%	ND
			RFNC-8229	Golden Yellow	P.Y.181	45%	ND
			RFNC-8229T	High-Trans Golden Yellow	P.Y.139	30%	ND
			RFNC-8371T	Solid Trans Orange	P.O.71	30%	ND
			RFNC-8373	Orange	P.O.73	45%	ND
			RFNC-8360	Scarlet	P.R.170	45%	ND
			RFNC-8370	Bright Red	P.R.170	45%	ND
			RFNC-8380T	High-Trans Chinese Red	P.R.254	45%	Halogen
			RFNC-8367	Solid Trans Red	P.R.177	45%	ND
			RFNC-8377T	High-Trans Brilliant Carmine	P.R.177	30%	ND
			RFNC-8368T	High-Trans Purple-Red	P.V.19	40%	ND
			RFNC-8322T	High-Trans Peach Red	P.R.122	30%	ND
			RFNC-8537	Halogen-Free Violet	P.V.37	35%	ND
			RFNC-8523T	High-Trans Violet	P.V.23	30%	Halogen
			RFNC-8653	Color Blue	P.B.15:3	45%	ND
			RFNC-8650	Red-Shade Blue	P.B.15:1	45%	ND
			RFNC-8655	High-Trans Green-Shade Blue	P.B.15:4	45%	ND
			RFNC-8660T	High-Trans Violet-Blue	P.B.60	30%	ND
			RFNC-8607	Color Green	P.G.7	45%	Halogen
			RFNC-8608	Halogen-Free Green	Composite	45%	ND

OIL-BASED COLORANT

FLTY GENERAL-PURPOSE SOLVENT-BASED SERIES



An aldehyde-ketone resin-based solvent color paste offering high compatibility, fast drying, excellent gloss and strong adhesion. Good stability with yellowing and weather resistance superior to some acrylic pastes. Widely used in high-end coatings, inks and plastic coloring.

Oil-Based Universal Color Paste / FLTY System

ALDEHYDE-KETONE RESIN CARRIER

Ref	Model	Color	C.I.	Pigment	Notes
	FLTY-2500	Lemon Yellow	PY.81	25%	(Outdoor) Clariant H10G Yellow 81
	FLTY-2600	Primary Yellow	PY.14	30%	(Indoor) PY14 standard opaque primary yellow
	FLTY-2700	Medium Yellow	PY.55	25%	(Indoor) Organic PY55 opaque medium yellow (red shade)
	FLTY-2800	Golden Yellow	PY.83	20%	(Outdoor) Golden yellow (red shade) = Clariant HR70
	FLTY-2900	Ultra-Weathering Golden Y.	BASF 3RLNT	25%	(Outdoor) BASF 3RLNT, 3+ yr weathering, red-shade gold
	FLTY-3100	Bright Orange	PO16	25%	(Indoor) Bright orange, good flow, excellent chemical resistance
	FLTY-3200	Vermilion Orange	PO34	25%	(Indoor) PO34 orange-red, high chroma
	FLTY-3500	Chinese Red	48:3	25%	(Indoor) Standard BBC coating Chinese red
	FLTY-3132	Chinese Red	PR21	25%	(Indoor) Bright ultra-fine coating Chinese red
	FLTY-3600	Chinese Red	F5RK	30%	(Indoor) Clariant F5RK, 1-yr indoor weathering
	FLTY-3700	Bright Red	F3RK	30%	(Outdoor) Clariant F3RK, 1-yr outdoor weathering
	FLTY-3800	Chinese Red	PR254	30%	(Outdoor) High-weathering Chinese red, 3+ yrs outdoor
	FLTY-3770	Purple-Red	PR177	15%	(Outdoor) PR177 brilliant carmine A3B
	FLTY-5200	Peach Red	PR122	20%	(Outdoor) Clariant 122 Pink-E, completely non-migrating
	FLTY-5300	Permanent Violet	V23	15%	(Outdoor) Clariant RLS (red-violet)
	FLTY-6500	Color Blue	PB15:3	30%	(Outdoor) BASF K7090 phthalocyanine blue
	FLTY-6700	Color Green	PG7	25%	(Outdoor) BASF L8730 phthalocyanine green
	FLTY-6028	Phthalocyanine Blue	PB29	50%	(Outdoor) PB29 Heubach phthalocyanine blue 5008
	FLTY-1000	Nano Jet Black	MA100	20%	800nm, Mitsubishi MA100, blue shade, low visc., high gloss
	FLTY-1009	Blue-Shade Black	MA100	20%	800nm, Mitsubishi MA100, blue shade, low visc., high gloss
	FLTY-1300	Special Black 6	Orion	15%	Orion (Degussa) Special Black 6
	FLAC-105	Thermoplastic Blue-Black	BK2	22%	Thermoplastic acrylic, alcohol-resistant, high gloss
	FLAC-1100	Thermoplastic Jet Black	Orion	20%	Thermoplastic acrylic, alcohol-resistant, high gloss
	FLTY-902H	Ultra-White	TiO ₂	75%	High-gloss oil-based universal white (imported TiO ₂)
	FLTY-706	White	DuPont 706	75%	DSM high-temp PU resin, TiO ₂ pink-white, no yellowing
	FLTY-313	Iron Oxide Yellow	PY.42	60%	(Outdoor) 313 iron oxide yellow (standard inorganic)
	FLTY-190	Iron Oxide Red	PR101	65%	(Outdoor) 190 iron oxide red (standard inorganic)
	FLTY-1916	Transparent Iron Yellow	PY.42	45%	BASF transparent iron yellow, golden shade, metallic
	FLTY-2817	Transparent Iron Red	PR101	45%	BASF transparent iron red, champagne gold, metallic
	FLTY-618	Medium Chrome Yellow	618	60%	High-concentration medium chrome yellow (inorganic)
	FLTY-811	Lemon Chrome Yellow	811	60%	High-concentration lemon yellow (bright inorganic)

EPOXY COLOR PASTE

EP SOLVENT-FREE EPOXY SYSTEM

Solvent-free epoxy color paste uses epoxy resin as carrier to disperse high-concentration pigments for epoxy coatings, adhesives and composites. Key features: high adhesion, chemical resistance, excellent mechanical strength, high post-cure hardness and outstanding abrasion resistance. Ideal for anti-corrosion, electronic encapsulation and floor coatings.



SEP Electronic-Grade Epoxy Color Paste

SEP electronic-grade epoxy color paste contains **no organic solvents**, with high fineness and narrow particle size distribution. It does not affect epoxy curing and offers migration resistance and stable insulation. Suitable for electronic potting, LED encapsulation, PCB conformal coating, power modules, component encapsulation, dry-type transformers, epoxy carbon-fiber composites and aramid ballistic materials.

Ref	Model	Pigment	Heat	Light	C.I.	Notes
	SEP Epoxy White	50%	260°C	7	PW6	Imported rutile titanium dioxide
	SEP-988 Epoxy Special Black	15%	300°C	8	BK7	Automotive-grade black pigment
	SEP-9202 Epoxy Brilliant Yellow	25%	260°C	7	P.Y.150	Clariant organic pigment
	SEP-9205 Epoxy Golden Yellow	25%	260°C	8	P.Y.151	BASF high-weathering golden yellow
	SEP-9328 Epoxy Chinese Red	25%	210°C	6	P.R.170	Clariant organic pigment
	SEP-9326 Epoxy Bright Red	30%	260°C	8	P.R.254	Imported organic DPP red
	SEP-9631 Epoxy Color Blue	30%	260°C	8	P.B.15:3	BASF imported blue pigment
	SEP-9673 Epoxy Color Green	25%	260°C	8	P.G.7	BASF imported green pigment
	SEP-955 Epoxy Violet	15%	260°C	8	P.V.23	DIC eco-friendly violet
	SEP-3130 Epoxy Iron Yellow	65%	200°C	8	313	Lanxess iron oxide
	SEP-3190 Epoxy Iron Red	65%	300°C	8	190	Lanxess iron oxide



EPOXY FLUORESCENCE

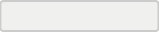
UPS SOLVENT-FREE EPOXY FLUORESCENT COLOR PASTE

Solvent-free epoxy fluorescent color paste disperses fluorescent pigments in an epoxy resin carrier, producing high-brightness fluorescence under UV or visible light excitation. Widely used for safety signage, anti-counterfeiting coatings, high-end decoration and electronic identification.



UPS Series — Solvent-Free Epoxy Fluorescent Paste

UV-REACTIVE FLUORESCENT PIGMENTS

Model	Color	Ref	Notes
8009	Fluorescent Porcelain White		Lightfastness 3, indoor use recommended, dosage 10–15%
809C	Fluorescent Lemon Yellow		Lightfastness 3, indoor use recommended, dosage 10–15%
8001	Fluorescent Medium Yellow		Lightfastness 3, indoor use recommended, dosage 10–15%
8002	Fluorescent Golden Yellow		Lightfastness 3, indoor use recommended, dosage 10–15%
811C	Fluorescent Orange-Red		Lightfastness 3, indoor use recommended, dosage 10–15%
804C	Fluorescent Orange-Yellow		Lightfastness 3, indoor use recommended, dosage 10–15%
804R	Fluorescent Orange		Lightfastness 3, indoor use recommended, dosage 10–15%
805C	Fluorescent Red		Lightfastness 3, indoor use recommended, dosage 10–15%
812C	Fluorescent Bright Red		Lightfastness 3, indoor use recommended, dosage 10–15%
8004	Fluorescent Magenta		Lightfastness 3, indoor use recommended, dosage 10–15%
806C	Fluorescent Pink		Lightfastness 3, indoor use recommended, dosage 10–15%
807C	Purple-Red Magenta		Lightfastness 3, indoor use recommended, dosage 10–15%
8008	Fluorescent Purple-Red		Lightfastness 3, indoor use recommended, dosage 10–15%
8003	Fluorescent Violet		Lightfastness 3, indoor use recommended, dosage 10–15%
814C	Fluorescent Purple		Lightfastness 3, indoor use recommended, dosage 10–15%
8006	Fluorescent Color Blue		Lightfastness 3, indoor use recommended, dosage 10–15%
801C	Fluorescent Blue		Lightfastness 3, indoor use recommended, dosage 10–15%
8005	Fluorescent Apple Green		Lightfastness 3, indoor use recommended, dosage 10–15%
802C	Fluorescent Green		Lightfastness 3, indoor use recommended, dosage 10–15%
8007	Fluorescent Color Green		Lightfastness 3, indoor use recommended, dosage 10–15%

RESIN-FREE NANO COLOR PASTE

NA OIL-BASED HIGH-TRANSPARENCY NANO SERIES

Particle size down to 90nm, grade 8 outdoor lightfastness, 5 years no color change, excellent dispersibility.

Optical films: PET, PC, amorphous polyolefin, BOPET (privacy/light-filter/touchscreen films).

Electronics: solvent-based encapsulation; nano particles do not interfere with insulation or thermal conductivity.

High-end coatings: automotive topcoats, premium industrial coatings.

Ink printing: PCB marking, hot-stamping inks.

Functional plastics: optical lenses and substrates.

Resin-free formulation with dye-like transparency. No discoloration after 10 min at 260°C or 30 min at 220°C. Excellent lightfastness (grade 8+, 5+ years outdoor) and outstanding weatherability; suitable for UV coatings.

NA Resin-Free High-Transparency Nano Paste

90NM PARTICLE SIZE · GRADE 8 LIGHTFASTNESS

Ref	Model	C.I.	Pigment	Heat	Halogen
	180 Transparent Medium Yellow	P.Y.180	20%	240°C	ND
	150 Transparent Green-Gold	P.Y.150	18%	260°C	ND
	1139 Transparent Golden Yellow	P.Y.139	20%	200°C	ND
	149 Transparent Bright Red*	P.R.149	15%	240°C	ND
	254 Transparent Bright Red (Ferrari)	P.R.254	20%	260°C	Halogen
	177 Transparent Brilliant Red	P.R.177	15%	260°C	ND
	179 Transparent Maroon Red*	P.R.179	15%	240°C	ND
	19 Halogen-Free Trans. Purple-Red	P.V.19	20%	280°C	ND
	19B Halogen-Free Trans. Purple-Red	P.V.19	20%	240°C	ND
	122 Transparent Peach Red	P.R.122	15%	260°C	ND
	1154 Transparent Color Blue	P.B.15:4	18%	260°C	ND
	156 Transparent Sky Blue	P.B.15:6	18%	260°C	ND
	PG7 Transparent Emerald Green	P.G.7	20%	280°C	Halogen
	60 Transparent Violet	P.B.60	15%	260°C	ND
	23 Transparent Permanent Violet	P.V.23	15%	260°C	Halogen
	37 Transparent Violet*	P.V.37	12%	240°C	ND
	1701 Nano Transparent Orange	P.O.71	15%	260°C	ND
	2817 Transparent Champagne Gold	2817	40%	300°C	ND
	1916 Transparent Gold	1916	40%	300°C	ND
	BK7 Transparent Nano Black	BK7	20%	280°C	ND
	BK7B Transparent Blue-Shade Black*	BK7	15%	240°C	ND

UV-CURABLE NANO PASTE

FLUV SERIES · UV / EB ELECTRON BEAM CURABLE

TPGDA eco-friendly monomer, solvent-free — does not affect UV curing efficiency. Excellent compatibility with all UV resins; complete reaction with photoinitiators, no residue. D50 particle size ≈ 200nm for superior color development. High-performance organic pigments, vivid colors under all UV intensities. Excellent color retention. Heavy-metal-plasticizer-free for safer use.

Suitable for UV inks, UV coatings, UV metal decorating, UV adhesives, UV nail gel, photosensitive 3D materials, UV/EB-curable coatings and EB adhesives.



UV-Curable | EB-Curable (FLUV Series)

SOLVENT-FREE NANO COLOR PASTE · D50 ≈ 200NM

Ref	Model	Color	Grade	Pigment	Heat	Light	Hal.	Notes
	FLUV-595	Titanium White	Nano	60%	260°C	7	ND	All imported TiO ₂
	FLUV-1305	Special Black	—	30%	260°C	7-8	ND	Imported Cabot carbon black
	FLUV-2600	Primary Yellow	—	30%	200°C	5	ND	Imp. organic yellow, high transparency, weathering
	FLUV-2975	Bright Yellow	Nano	30%	250°C	7-8	ND	Organic bright yellow, good lightfastness
	FLUV-2985	Medium Yellow	Nano	40%	230°C	7	ND	Organic medium yellow, good lightfastness
	FLUV-2905	Golden Yellow	Nano	40%	240°C	8	ND	Ultra-weathering gold, good lightfastness
	FLUV-3500	Bright Red	—	30%	220°C	6	—	Organic bright red, good lightfastness
	FLUV-3785	Chinese Red	Nano	40%	220°C	7	ND	Organic Chinese red, good lightfastness
	FLUV-3805	Chinese Red	Nano	40%	240°C	8	—	High-end imported organic Chinese red
	FLUV-3905	Purple-Red	Nano	40%	240°C	8	ND	Deep rose red shade
	FLUV-3205	Bright Orange	—	30%	200°C	5	—	Sun Chemical imported bright orange
	FLUV-5205	Peach Red	Nano	40%	240°C	7-8	ND	Imp. organic peach red, good lightfastness
	FLUV-5305	Permanent Violet	—	20%	240°C	7	—	DIC eco-friendly permanent violet
	FLUV-6530	Emerald Blue	—	30%	260°C	8	ND	BASF pigment, 5+ yrs outdoor
	FLUV-6600	Violet-Blue	Nano	30%	260°C	8	ND	BASF pigment, 5+ yrs outdoor
	FLUV-6700	Color Green	—	30%	260°C	8	—	BASF pigment, 5+ yrs outdoor

UV FLUORESCENT COLOR PASTE

FLUV UV-CURABLE FLUORESCENT SERIES

UV-curable fluorescent pigment paste glows under UV light with vivid colors. Applications include:

Coatings: luminescent & decorative coatings

Plastics: PE, PP, ABS injection/extrusion

Crafts: glowing ornaments & accessories

Inks: anti-counterfeiting for documents & packaging

Textiles: fluorescent prints on apparel & footwear

Electronics: markings & keypads

FLUV UV-Curable Fluorescent Color Paste

Eco-friendly modified resin + TP monomer carrier, **solvent-free**, vivid colors, no effect on curing efficiency. D50 ≈ 200nm. Does not glow in the dark; not for prolonged outdoor exposure. Heavy-metal-plasticizer-free. For UV inks, coatings, metal decorating, adhesives, nail gel and photosensitive 3D materials.

Ref	Model	Color	Pigment	Heat	Light	Notes
	FLUV-1801	Fluorescent Blue	50%	220°C	2-3	Solvent-free, does not affect curing efficiency
	FLUV-1802	Fluorescent Green	50%	220°C	2-3	Solvent-free, does not affect curing efficiency
	FLUV-1804C	Fluorescent Orange-Yellow	50%	220°C	2-3	Solvent-free, does not affect curing efficiency
	FLUV-1804R	Fluorescent Orange	50%	220°C	2-3	Solvent-free, does not affect curing efficiency
	FLUV-1805	Fluorescent Red	50%	220°C	2-3	Solvent-free, does not affect curing efficiency
	FLUV-1806	Fluorescent Pink	50%	220°C	2-3	Solvent-free, does not affect curing efficiency
	FLUV-1807	Fluorescent Peach Red	50%	220°C	2-3	Solvent-free, does not affect curing efficiency
	FLUV-1809	Fluorescent Yellow	50%	220°C	2-3	Solvent-free, does not affect curing efficiency
	FLUV-1811	Fluorescent Orange-Red	50%	220°C	2-3	Solvent-free, does not affect curing efficiency
	FLUV-1812	Fluorescent Bright Red	50%	220°C	2-3	Solvent-free, does not affect curing efficiency
	FLUV-1814	Fluorescent Violet	50%	220°C	2-3	Solvent-free, does not affect curing efficiency



WATER-SOLUBLE COLOR PASTE

WT RESIN-FREE WATER-SOLUBLE SERIES

Compatible: water-soluble alcohol-ether resins, water-oil universal systems, weak-solvent alkyd paints. Tints water-based and weak-solvent alkyd/baking enamels. Stable low-temp storage, minimal settling, transparent color development — excellent for wood stain color correction. Easy grinding, minimal grit.

Not compatible: pure acrylic emulsions, water-based PU emulsions (prone to flocculation).

Tip: For trial use, dilute 1:1 with water before adding to the system for better color development and compatibility. Can also be added directly.

Water-Soluble Resin-Free Color Paste / WT Series

Ref	Model	Color	C.I.	Pigment	Notes
	WT-5101T	Transparent Iron Red	PR101	45%	Heat 240°C, light 8, migration 5
	WT-5042T	Transparent Iron Yellow	PR42	45%	Heat 240°C, light 8, migration 5
	WT-706W	Titanium White	PW06	65%	Heat 230°C, light 8, migration 5
	WT-IW606	Titanium White	PW06	65%	Heat 230°C, light 8, migration 5
	WT-1300W	Black	PBK7	35%	Heat 240°C, light 8, migration 5
	WT-1900W	Blue-Shade Black	PBK7	35%	Heat 240°C, light 8, migration 5
	WT-5170	Chinese Red	PR170	35%	Heat 240°C, light 7, migration 5
	WT5173	Bright Red	PR170	35%	Heat 240°C, light 7, migration 5
	WT-5250T	Transparent Bright Red	PR254	28%	Heat 240°C, light 8, migration 5
	WT-5177T	Transparent Brilliant Carmine	PR177	35%	Heat 240°C, light 8, migration 5
	WT5710	High-Weathering Lemon Yellow	PY184	60%	Heat 240°C, light 8; excellent weathering at low dosage
	WT5720	Brilliant Yellow	PY151	30%	Heat 230°C, light 8, migration 5
	WT-5750	Bright Yellow	PY151	35%	Heat 240°C, light 8, migration 5
	WT-5740	Medium Yellow	PY74	35%	Heat 170°C, light 5, migration 5
	WT-5130	Orange	PO13	30%	Heat 170°C, light 4, migration 5
	WT-5730	High-Weathering Orange-Red	PO73	35%	Heat 240°C, light 8, migration 5
	WT-5830	Golden Yellow	PY83	25%	Heat 210°C, light 7, migration 5
	WT-5830T	Transparent Golden Yellow	PY83	25%	Heat 210°C, light 7, migration 5
	WT-5070	Transparent Green	PG7	35%	Heat 240°C, light 8, migration 5
	WT-5153T	Emerald Blue	PB15	35%	Heat 240°C, light 8, migration 5
	WT-5028	Phthalocyanine Blue	PB15:6	35%	Heat 240°C, light 8, migration 5
	WT5108	Indigo Blue	PB28	35%	Heat 240°C, light 8, migration 5
	WT-5230	Transparent Purple	PV23	28%	Heat 240°C, light 7, migration 5
	WT-5206	Purple-Red	P.R.146	35%	Heat 180°C, light 6, migration 5
	WT-5200T	Transparent Peach Red	PR122	35%	Heat 240°C, light 8, migration 5

Recommended usage: Dilute paste with water 1:2 or 1:1, then add slowly for best gloss and compatibility.

PURE WATER-BASED INDUSTRIAL PASTE

GT SERIES · ZERO RESIN · ZERO VOC

Zero resin, zero VOC, high compatibility, solvent-free — contains only water + pigment + eco-friendly additives. Good weatherability, chemical resistance and high-shear stability. Excellent compatibility with water-based acrylic, epoxy and polyurethane industrial paints.

Applications: heavy-duty anti-corrosion coatings, automotive parts coating, coil coatings.

Dosage: 5–15% of total formulation; add directly without dilution.

Pure Water-Based Industrial Color Paste / GT Series

Ref	Model	Color	C.I.	Pigment	Notes
	GT6017	Black	P.BK.7	45%	Heat 240°C, light 8, migration 5
	BK7H	Blue-Shade Special Black	P.BK.7	40%	Heat 240°C, light 8, migration 5
	GTW996	White	996	65%	Heat 230°C, light 6-7, migration 5
	GT6508	Phthalocyanine Blue	PB29	55%	Heat 240°C, light 7, migration 5
	GT6321	Chinese Red	PR21	45%	Heat 170°C, light 3, migration 5
	GT6370	Chinese Red	PR170	45%	Heat 210°C, light 7, migration 5
	GT6214	Primary Yellow	PY.14	45%	Heat 200°C, light 4, migration 4
	GT6213	Medium Yellow	PY.13	45%	Heat 210°C, light 5, migration 5
	GT6230	Lemon Yellow	PY.3	45%	Heat 170°C, light 3, migration 5
	GT6283	Golden Yellow	PY83	45%	Heat 210°C, light 6-7, migration 5
	GT6330	Orange	PO13	48%	Heat 190°C, light 5, migration 5
	GT6530	Brilliant Blue	15:3	50%	Heat 240°C, light 8, migration 5
	GT6510	Phthalocyanine Blue	15:0	48%	Heat 230°C, light 7, migration 5
	GT6570	Green	PG7	50%	Heat 240°C, light 8, migration 5
	GT6380	Purple-Red	PR8	45%	Heat 200°C, light 4-5, migration 4
	GT6322	Peach Red	PR122	25%	Heat 230°C, light 7-8, migration 5
	GT6523	Violet	PV23	25%	Heat 240°C, light 7, migration 5
	GT6503	Violet	PV3	25%	Heat 240°C, light 8, migration 5
	GT6350	Bright Red	PR254	55%	Heat 240°C, light 8, migration 5
	Y-42	Iron Yellow	P.Y.42	65%	Heat 180°C, light 8, migration 5
	R-110	Iron Red	P.Y.110	75%	Heat 240°C, light 8, migration 5

Water-Based Dispersant	Characteristics
DS-W72	Pure water-based dispersant for black pigments; good viscosity reduction; enables high-concentration black pastes (black-specific)
DS-W75	Pure water-based dispersant for white & inorganic pigments; good viscosity reduction (TiO ₂ & inorganic pigments)
DS-W79	Water-based dispersant for organic pigment wetting/dispersion; high gloss, good compatibility (high-chroma organic pigments)

AQUEOUS FLUORESCENCE

WH WATER-BASED FLUORESCENT COLOR PASTE

Water + pigment + eco-friendly additives + emulsifier. Good weatherability, chemical resistance and high-shear stability. Excellent compatibility with water-based acrylic, epoxy and polyurethane industrial paints. Suitable for indoor use; exhibits high-brightness fluorescence under UV or visible light.

For plastics, coatings, paints, resins and stationery. Strong tinting strength, high pigment content, good dispersibility and acid/alkali resistance. Fluorescent pigments are specialty products distinct from conventional pigments.

Water-Based Fluorescent Color Paste / WH Series

WATER-BASED FLUORESCENT PIGMENT

Model	Color	Ref	Notes
W21H	Purple-Red		Lightfastness 3, indoor use, dosage 10–15%
W14H	Orange-Red		Lightfastness 3, indoor use, dosage 10–15%
W20H	Peach Red		Lightfastness 3, indoor use, dosage 10–15%
W17H	Bright Yellow		Lightfastness 3, indoor use, dosage 10–15%
W16H	Medium Yellow		Lightfastness 3, indoor use, dosage 10–15%
W18H	Bright Green		Lightfastness 3, indoor use, dosage 10–15%
W12H	Bright Red		Lightfastness 3, indoor use, dosage 10–15%
W15H	Bright Orange		Lightfastness 3, indoor use, dosage 10–15%
W11H	Chinese Red		Lightfastness 3, indoor use, dosage 10–15%
W19H	Deep Blue		Lightfastness 3, indoor use, dosage 10–15%
W22H	Fluorescent Violet		Lightfastness 3, indoor use, dosage 10–15%

Water-Based Dispersant	Characteristics
DS-W72	Pure water-based dispersant for black pigments; good viscosity reduction; enables high-concentration black pastes (black-specific)
DS-W75	Pure water-based dispersant for white & inorganic pigments; good viscosity reduction (TiO ₂ & inorganic pigments)
DS-W79	Water-based dispersant for organic pigment wetting/dispersion; high gloss, good compatibility (high-chroma organic pigments)

SPECIAL OIL-BASED ADDITIVES

DENSON SOLVENT-BASED ADDITIVE SERIES

Additives are multifunctional coating ingredients that improve performance, stability and application properties — including dispersants, defoamers, leveling agents and adhesion promoters.

Solvent-Based Additives



DS-F20 Solvent-Based Universal Dispersant

Excellent wetting/dispersion for pigment carbon black; outstanding viscosity reduction; improves color strength and gloss. Ideal for high-concentration black pastes. Excellent for organic/inorganic pigments in coatings and pastes.
Dosage: 10% of pigment; 10–20% for carbon black. 100% active polymeric hyperdispersant.



DS-F21 Solvent-Based Universal Dispersant

For hard-to-disperse medium/high-color carbon blacks (5000/FW200/1300). Excellent viscosity reduction, color strength and gloss. Reduces milling time. Can be used in unsaturated polyester systems.
Dosage: 10% of pigment; 10–20% for carbon black. 100% active polymeric hyperdispersant.



EP-3106 High-Efficiency Universal Defoamer

For unsaturated polyester crafts and high-viscosity epoxy systems. Suppresses and breaks mechanical bubbles and reaction micro-bubbles. Broad applicability for resins and adhesives.
Dosage: 0.5–1%. 50% active solids.



EP-3109 High-Efficiency Defoamer

For epoxy resin composites: semiconductor casting, injection terminals, high-temp encapsulation. Strong defoaming, high bubble-breaking efficiency, long-lasting suppression at high temperature.
Dosage: 0.5–1%. 50% active solids.



DS-F10 Solvent-Based Universal Dispersant

For inorganic pigments (TiO₂, iron oxide red, matting agents). Better whiteness/hiding for TiO₂; improved gloss and storage stability; prevents hard settling; reduces milling time.
Dosage: TiO₂ 2–5%, inorganic 5–10%, organic 20–40%. 100% active acid-group copolymer.



DS-F50 Solvent-Based Universal Dispersant

For inorganic pigments (TiO₂, iron oxide red, matting agents). Better whiteness/hiding for TiO₂; improved gloss and storage stability; prevents hard settling; reduces milling time.
Dosage: TiO₂ 2–5%, inorganic 5–10%, organic 20–40%. 100% active acid-group copolymer.



DS-6800 Silicone Defoamer (Solvent-Free)

Extremely strong bubble-breaking/foam-suppressing at very low dosage. Especially for micro-bubbles in high-viscosity coatings/inks. Solvent-free — suitable for UV-curable systems.
Dosage: 0.05–1% of total formulation. 100% active solids.



DS-3750 Non-Silicone Leveling Agent

Fluorine-modified acrylic homopolymer. Broad compatibility, strong substrate wetting, some deaeration. No effect on recoat or gloss. Excellent heat resistance up to 350°C.
Dosage: 0.1–1% (rec. 0.3–0.5%). 55% solids.



DS-F63 Solvent-Based Universal Dispersant

Excellent wetting for MA100/U carbon blacks with superior blue-shade tone and minimal flooding. Effective for R170, PR170, PY83, phthalo blue/green. Excellent versatility.
Dosage: 10% of pigment; 10–20% for carbon black. 50% modified polyurethane polymer.



DS-F24 Solvent-Based Universal Dispersant

For hard-to-disperse medium/high-color carbon blacks (5000/FW200/1300). Excellent viscosity reduction, color strength and gloss. Reduces milling time. For unsaturated polyester systems.
Dosage: 10% of pigment; 10–20% for carbon black. 100% active polymeric hyperdispersant.



DS-3760 Non-Silicone Leveling Agent

Fluorine-modified acrylic homopolymer. Strong substrate wetting and deaeration; improves film build on high-temp epoxy (e.g. Dacromet). No gloss impact. Heat resistant to 350°C.
Dosage: 0.1–1% (rec. 0.3–0.5%). 55% solids.



DS-2065 Plastic Substrate Adhesion Promoter

Silicone-modified block polyester copolymer. Improves adhesion to ABS, PBT, ceramics, tempered glass. Also enhances phenolic/epoxy adhesive bonding strength.
Dosage: 0.1–1% (rec. 0.3–0.5%). 98% active polymeric dispersant.



DS-F52 Solvent-Based Universal Dispersant

For organic red pigments (FBB red 170/177, PV19, PR122, PR254). Excellent wetting, viscosity reduction, color strength and gloss. Can be used in alcohol-water systems (ratio ≤ 1:2).
Dosage: 10% of pigment; 10–20% for carbon black. 100% active polymeric hyperdispersant.



DS-5396 Silicone Leveling & Feel Agent

Exceptional slip and feel surpassing 333 leveling agents. Reduces friction; improves scratch/abrasion resistance. Improves matting powder orientation. Screen-printable on rubber coatings; recoatable.
Dosage: 0.5–2% of total formulation. 100% active solids.



DS-2063 Metal Substrate Adhesion Promoter

Polymeric phosphate ester for solvent/water-based coatings on metal (baking enamels; activates above 130°C). Especially effective on aluminum. Also for screen inks on PET/PC/PA.
Dosage: 1–2% of total formulation. 68% partially phosphorylated polyester solution.

SPECIAL ADDITIVES

ANTI-SETTLING · THIXOTROPIC · ANTI-FLOODING



DS-1559s Anti-Settling / Anti-Flooding Agent

Contains silicone. Anti-flooding, anti-separation, strong anti-mottling. For multiple resin/pigment systems across solvent-based, solvent-free and UV-curable systems. Broad application, extreme temp resistance.

Dosage: 0.5–1% of total formulation. 50% polymeric polyacid.



DS-670 Anti-Sagging Thixotropic Agent

With fumed silica or bentonite, significantly improves anti-sagging of coatings/adhesives. Especially for two-component epoxy (solvent and solvent-free types). Can replace BYK-607.

Dosage: 1–2% of total formulation. 100% special aliphatic modified polyamide.



DS-1558 Non-Silicone Anti-Settling Agent

Anti-flooding, anti-separation, strong anti-mottling for solvent-based, solvent-free and UV-curable systems. Universal characteristics, broad application, extreme temp resistance.

Dosage: 0.5–1% of total formulation. 100% polymeric polyacid.

Water-Based Dispersants / Anti-Settling / Antioxidants



DS-0910 Water-Soluble Dispersant

For alcohol-ester/ether/water systems. Excellent color development for perylene/antraquinone/DPP pigments and high-color carbon black. Improves vividness; solvent-resistant, non-precipitating.

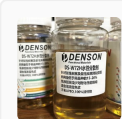
Dosage: 10% of pigment; 10–20% for carbon black. 100% active polymeric hyperdispersant.



DS-7330 Water-Based Universal Hyperdispersant

For water-based, solvent-based and water-soluble systems. Excellent wetting/dispersion for organic pigments; high-concentration and resin-free pastes. Also for matting powder orientation.

Dosage: 10% of pigment; 10–20% for carbon black. 100% active polymeric hyperdispersant.



DS-W79 Water-Based Dispersant

Improves color development, tinting strength and gloss; reduces mill-base viscosity; improves storage stability; aids matting powder orientation.

Dosage: inorg. 20–30%, TiO₂ 5–10%, org. 20–50%, carbon 25–50%, matting 10–15%. 40% active.



DS-F62 Water-Based Anti-Settling (High-Pigment)

No viscosity impact; broad pH range; stable at high/low temperatures. For hand sanitizers, industrial detergents (non-irritating), water-based coatings and inks.

Dosage: 0.2–0.5% (add after mixing). 100% active polymer.



DS-0913 Water-Soluble Dispersant (Alcohol-Ether Resistant)

For alcohol-water industrial coatings and UV materials. Excellent dispersion at any alcohol/water ratio. For organic pigments; high-concentration and resin-free pastes.

Dosage: 10% of pigment; 10–20% for carbon black. 100% active polymeric dispersant.



DS-W72 Water-Based Hyperdispersant

Good water solubility and resin compatibility. Excellent wetting/viscosity reduction; high-concentration pastes. Works at any alcohol/water ratio.

Dosage: 10% of pigment; 10–20% for carbon black. 100% active polymeric hyperdispersant.



DS-W76 Water-Based Dispersant

Universal dispersant: increases tinting strength and gloss, reduces viscosity, improves storage stability. High compatibility; aids matting powder orientation.

Dosage: inorg. 20–30%, TiO₂ 5–10%, org. 20–50%, carbon 25–50%, matting 10–15%. 40% active.



DS-F6240 Water-Based Anti-Settling (Powder)

Organic/inorganic composite: excellent rheology and stable thickening with good storage stability.

Dosage: 0.2–0.5% to 1%. 100% active polymer.

UNIVERSAL COLORANTS

DYE / COLORANT SERIES

For wood coloring, hot-stamping materials, leather dyeing, shoe polish, plastic spraying, printing/stationery inks, metal spraying, paints, eyewear, packaging paper, aluminum foil, and vacuum-metallized PVC, PET & OPP films.

Water-Oil Universal High-Temp Colorants (Liquid) — Heat Resistant to 180°C					
Model	Color	Ref	Model	Color	Ref
WS-R808	Purple-Red		WS-802	Orange-Red	
WS-R809	Bright Red		WS-K28	Pure Black	
WS-B05	Sky Blue		WS-Y202	Yellow	
WS-B707	Phthalo Blue		WS-Y201	Lemon Yellow	
WS-R714	Peach Red		WS-R806	Chinese Red	
WS-G20	Green		WS-V706	Violet	

Metal-Complex Solvent-Based Colorants (Liquid)					
Model	Color	Ref	Model	Color	Ref
DS-B128	Pure Black 55		DS-R606	Chinese Red 122	
DS-B104	Blue-Black 34		DS-R608	Bright Red	
DS-B120	Red-Black 27		DS-Y202	Golden Yellow 21	
DS-L803	Phthalo Blue		DS-O310	Orange 54	
DS-L806	Sky Blue 70		DS-O309	Orange-Red 62	
DS-G520	Color Green		DS-P710	Peach Red	
DS-D002	Permanent Violet		DS-B905	Red-Brown	
DS-D004	Purple-Red 8		DS-B902	Black-Brown	

TOSOH & GRACE MATTING POWDERS

Fine particle size with narrow distribution and excellent surface treatment prevents film whitening or graininess. Professional matting for matte and semi-matte finishes. Compatible with water-based, solvent-based and UV systems; does not affect intercoat adhesion or chemical resistance.



Tosoh (Japan) Matting Powder E-1011

pH	Oil Abs.	Particle Size
6.5	230 ml/100g	1.5 μm

Ultra-fine matting powder for thin-film systems; smooth feel and transparency without damaging base color. Good dispersibility; specially treated surface prevents hard settling.
Applications: Leather treatment agents, furniture coatings, UV bamboo/wood floor coatings



Grace (USA) Matting Powder C-803

pH	Oil Abs.	Particle Size
7.0	300 ml/100g	3.4–4.0 μm

Synthetic surface-treated silica with high porosity and easy dispersion. High matting efficiency; finer, smoother film feel; higher transparency.
Applications: Solvent-based, PU, leather, wood, plastic coatings; thin-film and metal panel paints



Grace (USA) Matting Powder SY7000

pH	Oil Abs.	Particle Size
3.3	300 ml/100g	4.6 μm

High-shear stability; wax-treated surface resists over-grinding; no hard settling; no effect on curing or intercoat adhesion. Smooth, abrasion-resistant surface; high transparency; minimal impact on mechanical properties and weatherability.
Applications: Industrial paints, art paints, premium-feel systems



Grace (USA) Matting Powder CP4-8991

pH	Oil Abs.	Particle Size
7.0	300 ml/100g	4.5–6.0 μm

Wax-treated high-porosity fine-particle silica. High matting efficiency, easy dispersion, good transparency and smoothness; excellent visual appearance in wet and dry film.
Applications: Water/solvent furniture coatings, artificial/natural leather, automotive plastics, thin films

DENSON

FUNCTIONAL MATERIALS

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