



# Pigment

Dainichiseika Color & Chemicals Mfg. Co., Ltd.



Dainichiseika

# Dainichiseika Pigments Color Chart, Properties Table and Usage

The information given in this leaflet is based on our general experience and on the results of tests made in our laboratory.

However, due to a lot of factors which are beyond our knowledge and control in the actual applications of these pigments, we shall be entirely free from responsibility for any damages incurred by the information thereof, and the contents are subject to change without notice.

## EXPLANATION OF DATA

### ■ Variations

Products shown in the column are also available.  
Properties of them are similar to the respective head products.

### ■ Physical data

#### • Transparency

Hiding power is evaluated visually as described in JIS K5101-2004.  
The following ranges are established as a guide for classifying our pigments.

- : Opaque
- ST : Semi-transparent
- T : Transparent

#### • Oil absorption

Oil absorption value is measured using boiled linseed oil by the method described in JIS 5101-2004.

### ■ Fastness properties

#### • Light fastness

Differences in colors (Full shade and tint shade) between the exposed and the corresponding unexposed controls were assessed according to the blue scale. (Class 8 : Superior to Class 1: Inferior)

#### • Resistance to acid (2% H<sub>2</sub>SO<sub>4</sub>), alkali (2% NaOH) aqueous solution

The pigment sample is suspended in each chemical solution.  
After drying, the color change is evaluated in accordance with gray scale (\*Remarks).  
The detailed testing method follows JIS K5101-2004.

#### • Water resistance

The pigment sample is dispersed in water, heated and filtered. The resistance to water is evaluated based on the degree of coloration of the filtrate.  
The evaluation shall be carried out in accordance with gray scale (\*Remarks).  
The detailed testing method follows JIS K5101-2004.

#### • Resistance to solvent

Solvent is added directly to the pigment to be extracted, and the resistance to solvent is evaluated according to the degree of coloration of the extract in accordance with (\*Remarks).  
The detailed testing method follows JIS K5101-2004.

#### (\*Remarks)

Evaluation criteria for the absolute comparison method

Evaluation Result	Evaluation criteria
Class 5 No color change	Difference in color equivalent to Step 5 on the gray scale for assessing change in color
Class 4 Slight color change	Step 4 on the gray scale
Class 3 Moderate color change	Step 3 on the gray scale
Class 2 Considerable color change	Step 2 on the gray scale
Class 1 Extreme color change	Step 1 on the gray scale

### ■ Application

- : Recommended
- △ : Limited suitability

### ■ REACH (Registration, Evaluation, Authorization and Restriction of Chemicals in EU)

- : Registered
- △ : Pre-registered
- : Not scheduled to register



Color of pigments		Product name	Variations	Color index generic name	Physical Data		Fastness properties			Resistance to solvent and oil						Application						REACH								
Full shade	Tint shade (1:10 TiO <sub>2</sub> )				Transparency	Oil absorption(ml/100g)	Light fastness		Acid	Alkali	Water	Ethyl alcohol	Ethyl acetate	Methylethyl ketone	Toluene	Turpentine	Air drying paints	Stoving enamels	Water based paints	Paints			Printing Inks		Plastics		Stationery			
							Full	Tint												Offset inks	Publication gravure inks		Packaging gravure inks	Flexographic inks	Water-based flexographic inks	PVC		PO	PS	
Organic Pigment																														
		SEIKAFAST YELLOW 2050	2070	PY 1	O	36	7	5	5	5	5	3	2	2	2	4	○	○								○	○			
		SEIKAFAST YELLOW 10GH		PY 3	O	37	6	5	5	5	5	3	2	2	2	4	○	○	○								○	○		
		SEIKAFAST YELLOW 2054K	2054C	PY 74	O	33	7	6	5	5	5	4	3	3	3	4	○										○	○		
		SEIKAFAST YELLOW A-3		PY 167	O	40	7	6	5	3	5	4	3	3	3	4	○	○									○	-		
		SEIKAFAST YELLOW 2300	2300M	PY 12	ST	49	4	3	5	5	5	4	3	3	3	5			○								○	○		
		SEIKAFAST YELLOW 2600	2600S	PY 13	ST	40	7	5	4	4	5	5	4	4	3	5												○	○	
		SEIKAFAST YELLOW 2606	2607 2608	PY 13	ST	45	7	5	5	5	5	5	4	4	3	5													○	○
		SEIKAFAST YELLOW 2200	2200M 2200S	PY 14	ST	41	5	4	5	5	5	5	4	4	3	5	○												○	○
		SEIKAFAST YELLOW 2270	2270S	PY 14	ST	28	5	4	5	5	5	5	4	4	3	5													○	○
		SEIKAFAST YELLOW NP 22D	AP22	PY 14	T	45	5	4	5	5	5	5	4	4	3	5													○	○
		SEIKAFAST YELLOW 2400(B)	2400 (B) S	PY 17	T	45	6	5	5	5	5	5	3	3	3	5													○	○
		SEIKAFAST YELLOW 2500	2500S 2520	PY 55	ST	53	5	4	5	5	5	5	4	4	3	5	○												○	○
		SEIKAFAST YELLOW 2700(B)	2700(B)S 2700E	PY 83	ST	45	7	5	5	5	5	5	4	4	4	5	○												○	○
		SEIKAFAST YELLOW 2720	2710	PY 83	ST	45	7	5	5	5	5	5	4	4	4	5	○	○											○	○
		SEIKAFAST YELLOW 2770		PY 83	ST	45	7	5	5	5	5	5	4	4	4	5													○	○
		SEIKAFAST YELLOW 2707S	2783	PY 83	ST	45	7	5	5	5	5	5	4	4	4	5													○	○
		SEIKAFAST YELLOW AP-77	AP-77K 2700(H)	PY 83	T	55	7	5	5	5	5	5	4	4	4	5													○	○
		SEIKAFAST YELLOW 2800		PY 152	ST	42	4	3	4	4	5	5	3	3	3	5	○												○	○
		SEIKAFAST VIOLET FR		PV 50	ST	58	5	4	5	5	5	3	3	2	4	5													-	-
		SEIKALIGHT BLUE C-718		PB 1	T	62	3	2	4	2	4	1	1	2	1	4													-	-
		SEIKALIGHT ROSE R-40	ROSE 44	PR 81	T	60	3	2	4	2	4	1	1	1	1	4													△	△
		SEIKALIGHT VIOLET B800		PV 3	T	50	3	2	4	3	3	2	2	2	3	4													△	△
		SEIKALIGHT VIOLET 7805M		PV 3	ST	41	3	2	4	3	4	2	2	2	3	4													△	△

Note : The color chart is expressed by offset printing process 4 colors.





Color of pigments		Product name	Variations	Color index generic name	Physical Data		Fastness properties			Resistance to solvent and oil						Application						REACH	
Full shade	Tint shade (1:10 TiO <sub>2</sub> )				Transparency	Oil absorption(ml/100g)	Light fastness		Water	Ethyl alcohol	Ethyl acetate	Methylethyl ketone	Turpentine	Air drying paints	Water based paints	Paints		Printing Inks		Plastics			Stationery
							Full	Tint								Acid	Alkali	Water based paints	Stoving enamels	Offset inks	Publication gravure inks		
		DAIPYROXIDE YELLOW 9121		PY 53	O 16	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○					○ ○ ○		△	
		DAIPYROXIDE YELLOW 9151		PBR 24	O 20	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						○ ○ ○		△	
		DAIPYROXIDE YELLOW 9211		PY 119	O 18	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						△ ○ ○		△	
		DAIPYROXIDE BROWN 9220		PBR 33	O 20	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						○ ○ ○		-	
		DAIPYROXIDE BROWN 9290		PBR 35	O 17	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						○ ○ ○		-	
		DAIPYROXIDE GREEN 9310		PG 50	O 17	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						○ ○ ○		△	
		DAIPYROXIDE GREEN 9430		PG 26	O 16	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						○ ○ ○		-	
		DAIPYROXIDE BLUE 9421		PB 36	O 23	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						○ ○ ○		-	
		DAIPYROXIDE BLUE 9410		PB 28	ST 28	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						△ △ △		△	
		DAIPYROXIDE BLUE 9453		PB 28	O 36	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						△ △ △		△	
		DAIPYROXIDE BLACK 9510		PBK 28	O 15	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						○ ○ ○		△	
		DAIPYROXIDE BLACK 9550		PBK 26	O 35	7 7	3 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						△ ○ ○		-	
		DAIPYROXIDE BLACK 9568		PBK 28	O 15	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						○ ○ ○		△	
		DAIPYROXIDE BLACK 9596		PBR 29	O 16	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						○ ○ ○		-	
		DAIPYROXIDE BLACK 9583			T 44	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						○ ○ ○		-	
Micronized calcined metal complex pigment																							
		DAIPYROXIDE TM YELLOW 8170		PY 42	T 41	8 8	5 3	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						△ ○ ○		-	
		DAIPYROXIDE TM RED 8270		PR 101	T 42	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						△ ○ ○		-	
		DAIPYROXIDE TM YELLOW 3210		PY 119	T 40	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						△ ○ ○		△	
		DAIPYROXIDE TM BLUE 3331		PB 28	T 46	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						○ ○ ○		△	
		DAIPYROXIDE TM BLUE 3490E		PB 28	T 60	8 8	5 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						△ △ △		△	
		DAIPYROXIDE TM BLACK 3550		PB 26	T 45	7 7	3 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						△ ○ ○		△	
		DAIPYROXIDE TM BLACK 3552		PBK 26	T 45	7 7	3 5	5 5	5 5	5 5	5 5	5 5	5 5	○ ○ ○						△ ○ ○		△	

Note : The color chart is expressed by offset printing process 4 colors.