FIRSTCOLOR

FOR PAINTS, INKS, & PLASTICS

PIGMENTS

FIRST COLOR CO,.LTD.

Sihwa Factory
70, Gongdan 1-Daero, 28 Beon-Gil,
Siheung-city, Gyeonggi-Do, Korea

Tel : +(82) 31-432-6977
Fax : +(82) 31-715-6329

E-mail : info@first-color.com
website : www.first-color.com

Chungju Factory
32, Cheomdansaneop 6-ro,
Daesowon-Myeon, Chungju-city,
Chungcheong Bukdo, Korea

Tel : +(82) 43-849-7600
Fax : +(82) 43-848-7601

Printed in Korea. Dec 2015

INTERNATIONAL BS EN ISO 9001 UKAS QUALITY MANAGEMENT

FIRSTCOLOR

INTRODUCTION

This booklet provides a comprehensive list of the pigments for the **paint**, **printing ink**, and **plastics**.

The products are divided into two main groups : Inorganic powder pigments and Organic powder pigments.

Each group is subdivided into product ranges under the appropriate **First Color**'s trade names and within each range the products are listed in the color yellow and red.

Possible fields of application are indicated opposite each product, but it must be stressed that these are only intended as a general guide.
More detailed information on specific applications and products control is available from our Technical and Marketing department.

Our technicians are committed to help customers to select the best pigment available from **First Color**.

We hope that this booklet would be a valuable guide for our customers' pigment selection of their best types.

For use in food packaging materials and toys, please contact our Marketing department for products recommendation.

TEST METHODS

Specific Gravity

Determined by using a pycnometer and kerosene in accordance with ASTM D153-84.

Oil Absorption

Determined by spatula rub-out method with boiled linseed oil 2g pigment of a glass plate as described in ASTM D281-84.

Moisture

Determined by measuring the loss in weight of a pigment after heating 2hr at a temperature of 105 °C to 110°C as outlined in ASTM D280-81.

Water Soluble Matter

Determined by measuring the loss in weight of residue after evaporation of the filtrate from 10% aqueous slurry as outlined in ASTM D1208. 5-84.

pH

Determined by measuring the pH value of the filtrate from 2% aqueous slurry with a glass electrode as outlined in ASTM D1208. 6-84.

Heat Resistance

Plastics : Pigment samples are dispersed in H.D.P.E at 2% pigmentation level (Inorganic) and 1% pigmentation level (Organic).
Resulting Master Batches are processed through an injection molding machine at incremental temperatures with : 150°C for five minutes at 150°C.

Paint : Masstone enamels of the pigments are sprayed on panels and baked at 150°C for 10 minutes.

Inks : Metal-decoating inks of the pigments are applied white coated panels and baked at 150°C for 10 minutes.

Light-Fastness

Dry prints of the pigments are exposed 72 hours in the Fade-Ometer.

Weather-Fastness

Assessments are based on extensive testing of the pigment by Weather-Ometer.

Chemical Resistance

Add dry pigment powder (at a ratio of 1:10) to 5% solution of hydrochloric acid or sodium hydroxide. Slurry and stand for 30 minutes. Filter through No. 42 filiter paper, wash residue with water and dry. Compare tested pigment with control in Hoover Muller linseed Oil varnish. Rate the degree of colour change on 1 to 5 scales.

Fastness Assessment

Light-Fastness & Weather-Fastness

8 : Outstanding	4 : Fair
7 : Excellent	3 : Rather Poor
6 : Very Good	2 : Poor
5 : Good	1 : Very Poor

Fastness to Solvents Heat & Chemicals

(the degree of standing)

5 : None	2 : Serious
4 : Trade	1 : Severe
3 : Slight	

Explanation of Symbols

● Major Use
○ Other Potential Use

CLASSIFICATION OF
FIRST COLOR PIGMENT

ORGANIC PIGMENTS

P. Yellow 12
First Yellow 121
First Yellow 124
First Yellow 129

P. Yellow 13
First Yellow 130
First Yellow 1305
First Yellow 308GT
First Yellow HMX-300
First Yellow SPG-RN

P. Yellow 14
First Yellow 141
First Yellow 1415G
First Yellow 143
First Yellow GNP-1401
First Yellow GNP-1402
First Yellow GNP-2277
First Yellow GNP-2278

P. Yellow 17
First Yellow 173GFF-CONC

P. Yellow 65
First Yellow 652

P. Yellow 74
First Yellow PGX-01
First Yellow PGX-02
First Yellow PGX-05
First Yellow LF-06
(Lead Free Pigment)

P. Yellow 83
First Yellow HR
First Yellow HR085
First Yellow HR100
First Yellow HR800L
First Yellow HR830
First Yellow HR830R
First Yellow HR830RS
First Yellow HR831
First Yellow HR835
First Yellow HR838
First Yellow 8385R

P. Yellow 168
First Yellow 6801

P. Yellow 174
First Yellow 7147

P. Yellow 180
First Yellow 1800

P. Red 48:1
First Red 4810
First Red 4815G

P. Red 48:2
First Red 4820
First Red 4822
First Red 4828
First Red M-4822

P. Red 48:3
First Red 4830
First Red 4831

P. Red 48:4
First Red 4840
First Red 7BL-SM

P. Red 52:2
First Bordeaux P'conc

P. Red 53:1
First Red C'conc
First Red C-530
First Red C-530TG
First Red C-530WTS

P. Red 53:3
First Red SR

P. Red 57:1
Carmine 6B-579
Carmine 6B-5705G
Carmine 6B-6727
Carmine 6B-6729
Carmine 6B-6730
Carmine 6B-4BGT
Carmine 6B-A100
Carmine 6B-5BLDE
Carmine 6B-EF1
Carmine 6B-EF3
Carmine 6B-EWS

P. Red 146
First Red 1461
First Red 4608

P. Red 170
First Red 1700

P. Red 254
First Red 2000
First Red 2100

P. Blue 15:0
First Blue 1500

P. Blue 15:1
First Blue 1510

P. Blue 15:3
First Blue 1530

P. Green 7
First Green G-EX
First Green GB

INORGANIC PIGMENTS

Chrome Yellow

P. Yellow 34
First Yellow 101G
First Yellow 505
First Yellow 707G
First Yellow 707
First Yellow L-2722
Royal Yellow 1000
Royal Yellow 4000
Royal Yellow 4100
Royal Yellow 5000

Molybdate Red

P. Red 104
First Red 700
First Red 2222ST
Royal Red 7000
Royal Red 8000

FIRSTCOLOR

ORGANIC PIGMENT

Product Name C.I. Pigment C.I. No	Full Shade (5% Pigment)	Tint (1:10)	Phy. Data				Resistance to solvent						Chemical Resistance		Light Fastness		Weather Fastness		Heat Resistance		Application											Note
																					Inks				Paints				Plastics			
			Oil Absorption (gr/100g)	Specific Gravity (gr/cm3)	Bulking Value (cm3/100g)	pH	Water	M.E.K	Xylene	Linseed Oil	Ethanol	D.O.P	5% Hcl	5% NaOH	Mass	Tint (1:10)	Mass	Tint (1:10)	210℃ x 10min	150℃ x 10min	Offset Printing	Gravoure Printing	Packaging Printing	Aqueous	Solvent	Aqueous	General Industrial	Coating	PVC	Polyolefins	Rubber	
FIRST YELLOW 121 YELLOW 12 (C.I. 21090)			52	1.38	740	6-8	5	4	4	5	4	4	5	5	5	3	4	3	2	3	●	○	○	○					○			Standard Yellow and Transparent Type
FIRST YELLOW 124 YELLOW 12 (C.I. 21090)			42	1.39	735	6-8	5	3	3	5	4	4	5	5	4	3	4	3	3	4	○	●	○	●						○		Bright Greenish Yellow
FIRST YELLOW 129 YELLOW 12 (C.I. 21090)			45	1.39	465	6-8	5	4	3	5	4	4	5	5	4	3	4	3	3	3	○	●	●	○						○		
FIRST YELLOW 130 YELLOW 13 (C.I. 21100)			37	1.23	630	6-8	5	4	4	5	4	4	5	5	5	4	5	3	3	4	●	●	●	●	●	○	○	○	○	○	○	Reddish Yellow with Good Color Strength and Fastness
FIRST YELLOW 1305 YELLOW 13 (C.I. 21100)			40	1.49	435	6-8	5	4	4	5	4	4	5	5	5	4	5	3	3	4	●	○	●	●	○				○	○		
FIRST YELLOW 308GT YELLOW 13 (C.I. 21100)			37	1.45	448	6-8	5	4	4	5	4	4	5	5	5	4	5	3	3	4	○	●	●	●		○			○	○		
FIRST YELLOW HMX-300 YELLOW 13 (C.I. 21100)			45	1.40	600	6-8	5	4	4	5	4	4	5	5	5	4	5	3	3	4	●	●	○	○					○	○	○	Transparent Type for Process Printing Inks
FIRST YELLOW SPG-RN YELLOW 13 (C.I. 21100)			36	1.40	620	6-8	5	4	4	5	4	4	5	5	5	4	5	3	3	4	●	●	●	○					●	○	○	Bright Yellow and Transparent Type
FIRST YELLOW 141 YELLOW 14 (C.I. 21095)			32	1.22	560	6-8	5	4	3	4	4	5	5	5	4	3	3	3	3	4	○	●	●	○					●	○		Greenish Yellow and Good Color Strength
FIRST YELLOW 1415G YELLOW 14 (C.I. 21095)			42	1.17	556	6-8	5	4	4	5	4	4	5	5	4	3	3	3	4	5		●	○	○					○	○		
FIRST YELLOW 143 YELLOW 14 (C.I. 21095)			29	1.38	570	6-8	5	4	3	4	4	5	5	5	4	3	4	3	3	4	○	○	●	●		○			○	○		Bright Yellow

FIRSTCOLOR

ORGANIC PIGMENT

Product Name C.I. Pigment C.I. No	Full Shade (5% Pigment)	Tint (1:10)	Phy. Data				Resistance to solvent						Chemical Resistance		Light Fastness		Weather Fastness		Heat Resistance		Application										Note
																					Inks				Paints				Plastics			
			Oil Absorption (gr/100g)	Specific Gravity (gr/cm3)	Bulking Value (cm3/100g)	pH	Water	M.E.K	Xylene	Linseed Oil	Ethanol	D.O.P	5% Hcl	5% NaOH	Mass	Tint (1:10)	Mass	Tint (1:10)	210℃ x 10min	150℃ x 10min	Offset Printing	Gravoure Printing	Packaging Printing	Aqueous	Solvent	Aqueous	General Industrial	Coating	PVC	Polyolefins	Rubber	
FIRST YELLOW GNP-1401 YELLOW 14 (C.I. 21095)			46	1.60	450	6-8	5	4	3	4	4	5	5	5	4	3	4	3	4	5		●	●	○		○			○	○		Transparent Type
FIRST YELLOW GNP-1402 YELLOW 14 (C.I. 21095)			45	1.30	500	6-8	5	4	3	4	4	4	5	5	4	3	4	3	4	5		●	●	○		○			○	○		
FIRST YELLOW GNP-2277 YELLOW 14 (C.I. 21095)			30	1.22	600	6-8	5	4	3	4	4	5	5	5	4	3	4	3	3	4		○	●	○								Good Flow
FIRST YELLOW GNP-2278 YELLOW 14 (C.I. 21095)			31	1.23	600	6-8	5	4	3	4	4	5	5	5	4	3	4	3	3	4		○	●	○								Slightly opaque
FIRST YELLOW 173GFF-CONC YELLOW 17 (C.I. 21105)			46	1.48	450	6-8	5	3	3	4	4	5	5	5	5	4	5	3	3	4	○	●	●	○	○	○			●	●	●	More Transparent and Good Color Strength
FIRST YELLOW 652 YELLOW 65 (C.I. 11740)			42	1.41	620	7-8	5	3	4	5	5	3	5	5	6	5	5	4	3	4	○	●	○	●	●	●	○		○	○		Solvent and Water Base Roadmarking
FIRST YELLOW PGX-01 YELLOW 74 (C.I. 11741)			31	1.40	400	6-8	5	4	3	5	4	4	5	5	7	6	6	5	4	5		○	○	●	●	●	○					Bright Shade and Good Fastness
FIRST YELLOW PGX-02 YELLOW 74 (C.I. 11741)			44	1.50	550	6-8	5	4	3	5	4	4	5	5	7	6	6	5	4	5		○	○	●	●	●		○				Slight Reddish Shade
FIRST YELLOW PGX-05 YELLOW 74 (C.I. 11741)			37	1.50	560	6-8	5	4	3	5	4	4	5	5	7	6	6	5	4	5		○	○	●	●	●		○				Reddish shade
FIRST YELLOW LF-06 YELLOW 74 (C.I. 11741)			31	1.90	345	6-8	5	4	3	5	4	4	5	5	7	5	7	5	5	5					●	●	●	●				Lead Free Pigment
FIRST YELLOW HR YELLOW 83 (C.I. 21108)			35	1.50	441	6-8	5	4	4	5	4	4	5	5	7	6	5	4	3	5	○	●	●	○	○	○			○	○		

FIRSTCOLOR

ORGANIC PIGMENT

Product Name C.I. Pigment C.I. No	Full Shade (5% Pigment)	Tint (1:10)	Phy. Data				Resistance to solvent						Chemical Resistance		Light Fastness		Weather Fastness		Heat Resistance		Application											Note
																					Inks				Paints				Plastics			
			Oil Absorption (gr/100g)	Specific Gravity (gr/cm3)	Bulking Value (cm3/100g)	pH	Water	M.E.K	Xylene	Linseed Oil	Ethanol	D.O.P	5% Hcl	5% NaOH	Mass	Tint (1:10)	Mass	Tint (1:10)	210°C x 10min	150°C x 10min	Offset Printing	Gravoure Printing	Packaging Printing	Aqueous	Solvent	Aqueous	General Industrial	Coating	PVC	Polyolefins	Rubber	
FIRST YELLOW HR085 YELLOW 83 (C.I. 21108)			33	1.49	435	6-8	5	4	4	5	4	4	5	5	7	6	5	4	2	5	○	●	●	○	○	○				○		
FIRST YELLOW HR100 YELLOW 83 (C.I. 21108)			33	1.50	429	6-8	5	4	4	5	4	4	5	5	7	6	4	3	2	5	○	●	●	●					●	○	○	
FIRST YELLOW HR800L YELLOW 83 (C.I. 21108)			46	1.60	417	7-9	5	4	4	5	4	4	5	5	7	6	4	3	3	5	○	●	●	●					●	○	○	
FIRST YELLOW HR830 YELLOW 83 (C.I. 21108)			42	1.40	450	7-8	5	4	4	5	4	4	5	5	7	6	7	6	5	5	○	○	○	○	●	●	○	○	○	○	●	Opaque Type Non-resinated Grade
FIRST YELLOW HR830R YELLOW 83 (C.I. 21108)			34	1.50	423	6-8	5	4	4	5	4	4	5	5	7	6	4	4	3	5	○	●	●	●	○	○			○	○		
FIRST YELLOW HR830RS YELLOW 83 (C.I. 21108)			32	1.49	435	6-8	5	4	4	5	4	4	5	5	7	6	4	4	3	5	○	●	●	●	○	○			○	○		
FIRST YELLOW HR831 YELLOW 83 (C.I. 21108)			44	1.49	490	7-8	5	4	4	5	4	4	5	5	7	5	7	6	5	5	○	●	●	○	○	○	●			●	●	Transparent Type
FIRST YELLOW HR835 YELLOW 83 (C.I. 21108)			44	1.50	500	7-8	5	4	4	5	4	4	5	5	7	6	4	3	5	5	●	●	●	○					●	●	●	More Transparent type Reddish shade
FIRST YELLOW HR838 YELLOW 83 (C.I. 21108)			40	1.50	550	7-8	5	4	4	5	4	4	5	5	7	6	5	4	5	5		○	○		●	●	●	●	○	○		Opaque Type
FIRST YELLOW 8385R YELLOW 83 (C.I. 21108)			32	1.50	432	6-8	5	4	4	5	4	4	5	5	7	6	4	3	2	5		●	●	●	○	○		○	○	○		
FIRST YELLOW 6801 YELLOW 168 (C.I. 13960)			32	1.20	556	6-8	5	4	4	4	4	4	5	4	7	6	5	4	5	5					●	●	○	○	○	○	○	

FIRSTCOLOR

ORGANIC PIGMENT

Product Name C.I. Pigment C.I. No	Full Shade (5% Pigment)	Tint (1:10)	Phy. Data				Resistance to solvent						Chemical Resistance		Light Fastness		Weather Fastness		Heat Resistance		Application										Note
																					Inks				Paints				Plastics			
			Oil Absorption (gr/100g)	Specific Gravity (gr/cm3)	Bulking Value (cm3/100g)	pH	Water	M.E.K	Xylene	Linseed Oil	Ethanol	D.O.P	5% Hcl	5% NaOH	Mass	Tint (1:10)	Mass	Tint (1:10)	210°C x 10min	150°C x 10min	Offset Printing	Gravoure Printing	Packaging Printing	Aqueous	Solvent	Aqueous	General Industrial	Coating	PVC	Polyolefins	Rubber	
FIRST YELLOW 7147 YELLOW 174 (C.I. 21098)			29	1.80	366	6-8	5	4	3	4	4	5	4	4	5	4	4	3	3	4	●	○			○	○						
FIRST YELLOW 1800 YELLOW 180 (C.I. 21290)			47	1.25	517	6-8	5	5	5	4	5	5	5	5	8	7	8	7	5	5	○	●	●	○	○	○	○	○	●	●	○	
FIRST RED 4810 RED 48:1 (C.I. 15865:1)			40	1.60	550	7-9	4	4	4	3	4	4	4	3	6	4	4	3	3	5	○	●	●	○	●	○			○	○	●	Yellow Shade and Nonbleeding Grade
FIRST RED 4815G RED 48:1 (C.I. 15865:1)			41	1.60	411	6-8	4	4	4	3	4	4	4	3	6	4	4	3	4	5	○	●	●	○								
FIRST RED 4820 RED 48:2 (C.I. 15865:2)			43	1.70	450	7-9	4	4	4	3	4	4	4	3	6	5	4	3	3	4	●	●	○	●					●	●	●	
FIRST RED 4822 RED 48:2 (C.I. 15865:2)			43	1.60	470	7-9	4	4	4	3	4	5	4	3	6	5	4	3	3	5	○	●	○	○					●	●		Easy Dispersion Type
FIRST RED 4828 RED 48:2 (C.I. 15865:2)			40	1.65	480	7-9	4	4	4	3	4	4	4	3	6	5	4	3	3	5	●	●	●	○			○		○	○		Transparent Type
FIRST RED M-4822 RED 48:2 (C.I. 15865:2)			39	1.70	380	6-8	4	4	4	3	4	5	4	3	6	5	4	3	4	5	●	●	●	○					○	●		
FIRST RED 4830 RED 48:3 (C.I. 15865:3)			43	1.50	450	7-9	4	4	4	4	4	4	4	3	6	5	5	4	5	5	○	●	●	●	●		○		○	●	○	Yellow Shade
FIRST RED 4831 RED 48:3 (C.I. 15865:3)			41	1.52	460	7-9	4	4	4	4	4	4	3	2	6	4	5	4	4	5		●	●	●	●		○		○	●	○	Transparent Type
FIRST RED 4840 RED 48:4 (C.I. 15865:4)			40	1.54	400	7-9	4	4	3	5	2	4	4	3	7	5	5	4	4	5		○	○	○	○	○	●	●	○	○	○	Yellow Shade

FIRSTCOLOR

ORGANIC PIGMENT

Product Name C.I. Pigment C.I. No	Full Shade (5% Pigment)	Tint (1:10)	Phy. Data				Resistance to solvent						Chemical Resistance		Light Fastness		Weather Fastness		Heat Resistance		Application										Note
																					Inks				Paints				Plastics			
			Oil Absorption (gr/100g)	Specific Gravity (gr/cm3)	Bulking Value (cm3/100g)	pH	Water	M.E.K	Xylene	Linseed Oil	Ethanol	D.O.P	5% Hcl	5% NaOH	Mass	Tint (1:10)	Mass	Tint (1:10)	210℃ x 10min	150℃ x 10min	Offset Printing	Gravoure Printing	Packaging Printing	Aqueous	Solvent	Aqueous	General Industrial	Coating	PVC	Polyolefins	Rubber	
FIRST RED 7BL-SM RED 48:4 (C.I. 15865:4)			50	1.56	450	7-9	4	4	3	5	2	4	4	3	7	5	5	4	4	5		○	○	○	●	○	●	○	○	○	○	Transparent and Most Reddish Shade
FIRST BORDEAUX P'CONC RED 52:2 (C.I. 15860:2)			37	1.50	430	7-9	4	2	3	4	2	3	4	3	6	5	5	4	4	5		○	○	○	●		●	○	●			
FIRST RED C'CONC RED 53:1 (C.I. 15585:1)			45	1.60	450	7-9	5	3	4	4	3	5	4	3	4	3	3	2	3	4	●	●	●	○					●	●	●	Rosin Coating Type & Yellow Shade
FIRST RED C-530 RED 53:1 (C.I. 15585:1)			41	1.50	400	7-9	5	3	4	4	3	5	4	3	4	3	3	2	3	4	○	●	●	○					○	○		Solvent and Flexo Inks
FIRST RED C-530TG RED 53:1 (C.I. 15585:1)			46	2.33	278	6-8	5	3	4	4	3	5	4	3	4	3	4	3	3	5	○	●	●	○					○	○		
FIRST RED C-530WTS RED 53:1 (C.I. 15585:1)			43	1.70	400	7-9	5	3	4	4	3	5	4	3	4	3	3	2	3	4	○	●	○	●	●	○						Water Base Flexo Inks
FIRST RED SR RED 53:3 (C.I. 15585:3)			45	1.50	500	7-9	5	4	3	4	3	3	4	3	4	2	5	4	4	5	○	●	●	○				●	●	●	●	Good dispersion, Yellow Shade and Barium Free
CARMINE 6B-579 RED 57:1 (C.I. 15850:1)			53	1.60	400	7-9	4	3	3	4	4	4	3	2	5	4	4	3	3	5	○	●	●	○				○	○	○		Yellow Shade
CARMINE 6B-5705G RED 57:1 (C.I. 15850:1)			44	2.20	294	7-9	4	3	3	4	4	4	3	2	5	4	4	3	3	5	○	●	●	●					○	○		
CARMINE 6B-6727 RED 57:1 (C.I. 15850:1)			57	1.55	450	7-8	3	3	3	4	4	4	4	3	5	4	4	3	3	5	●	○	○						○	○		Good Dispersion Grade
CARMINE 6B-6729 RED 57:1 (C.I. 15850:1)			52	1.89	343	7-9	4	3	3	4	4	4	3	2	5	4	4	3	3	5	●	○	○	○					○	○		

FIRSTCOLOR

ORGANIC PIGMENT

Product Name C.I. Pigment C.I. No	Full Shade (5% Pigment)	Tint (1:10)	Phy. Data				Resistance to solvent						Chemical Resistance		Light Fastness		Weather Fastness		Heat Resistance		Application										Note
																					Inks				Paints				Plastics			
			Oil Absorption (gr/100g)	Specific Gravity (gr/cm3)	Bulking Value (cm3/100g)	pH	Water	M.E.K	Xylene	Linseed Oil	Ethanol	D.O.P	5% Hcl	5% NaOH	Mass	Tint (1:10)	Mass	Tint (1:10)	210℃ x 10min	150℃ x 10min	Offset Printing	Gravoure Printing	Packaging Printing	Aqueous	Solvent	Aqueous	General Industrial	Coating	PVC	Polyolefins	Rubber	
CARMINE 6B-6730 RED 57:1 (C.I. 15850:1)			55	1.97	330	7-9	4	3	3	4	4	4	3	2	5	4	4	3	3	5	●	○	○	○					○	○		
CARMINE 6B-4BGT RED 57:1 (C.I. 15850:1)			48	1.85	351	7-9	4	3	3	4	4	4	3	2	5	4	4	3	3	5	○	●	○	○					○	○		
CARMINE 6B-A100 RED 57:1 (C.I. 15850:1)			54	1.60	420	7-9	4	3	4	4	4	4	3	2	5	4	5	4	5	5	○	○	○	○					●	●	●	Bright Shade for Plastics
Carmine 6B-5BLDE RED 57:1 (C.I. 15850:1)			54	1.60	420	7-9	4	3	4	4	4	4	3	2	5	4	5	4	5	5	○	○	○	○					●	●	●	Good Dispersion with fine Particle Size
CARMINE 6B-EF1 RED 57:1 (C.I. 15850:1)			54	1.60	400	7-9	4	3	4	4	4	4	3	2	5	4	4	3	3	5	●		○	○					○	○	○	Yellow Shade for Process Ink
CARMINE 6B-EF3 RED 57:1 (C.I. 15850:1)			53	1.60	400	7-9	4	3	4	4	4	4	3	2	5	4	4	3	3	5	●		○	○					○	○	○	Blue Shade for Process ink
CARMINE 6B-EWS RED 57:1 (C.I. 15850:1)			62	1.60	400	7-9	4	3	4	4	4	4	3	2	5	4	4	3	3	5	○	○	○	●	●	○	●	●	○	○		Yellow Shade For Aqueous Ink
FIRST RED 1461 RED 146 (C.I. 12485)			46	1.40	650	7-9	5	5	5	5	3	3	5	5	7	6	6	5	4	5	○	●	●	●	●	○	●	●	○	○	○	Transparent Grade Reddish Shade
FIRST RED 4608 RED 146 (C.I. 12485)			43	1.40	660	7-9	5	5	5	5	3	3	5	5	7	6	6	5	4	5	●	○	●	●	●	○	●	●	○	○	○	Opaque Grade
FIRST RED 1700 RED 170 (C.I. 12475)			42	1.40	500	6-8	5	3	4	5	5	4	5	5	7	6	5	4	4	5	○	●	○	○	○	○	○	○	○	●		Yellow Shade
FIRST RED 2000 RED 254 (C.I. 56110)			42	1.90	341	6-8	5	5	5	5	5	5	5	5	7	6	7	6	5	5	○	●	●	○					●	○	○	

FIRSTCOLOR

ORGANIC PIGMENT

Product Name C.I. Pigment C.I. No	Full Shade (5% Pigment)	Tint (1:10)	Phy. Data				Resistance to solvent						Chemical Resistance		Light Fastness		Weather Fastness		Heat Resistance		Application										Note
																					Inks				Paints				Plastics			
			Oil Absorption (gr/100g)	Specific Gravity (gr/cm3)	Bulking Value (cm3/100g)	pH	Water	M.E.K	Xylene	Linseed Oil	Ethanol	D.O.P	5% Hcl	5% NaOH	Mass	Tint (1:10)	Mass	Tint (1:10)	210℃ x 10min	150℃ x 10min	Offset Printing	Gravoure Printing	Packaging Printing	Aqueous	Solvent	Aqueous	General Industrial	Coating	PVC	Polyolefins	Rubber	
FIRST RED 2100 RED 254 (C.I. 56110)			43	1.80	345	7-9	5	5	5	5	5	5	5	5	7	6	7	6	5	5	○	○	○		●	●	●	●	○	○		
FIRST BLUE 1500 BLUE 15:0 (C.I. 74160)			42	1.70	400	6-8	5	5	5	5	5	5	5	5	7	6	6	5	3	4	○	○	○	○	○	○	○	○	●	●	○	
FIRST BLUE 1510 BLUE 15:1 (C.I. 74160)			42	1.70	400	6-8	5	5	5	5	5	5	5	5	8	8	6	5	4	5	○	○	○	○	○	○	○	○	●	●	●	
FIRST BLUE 1530 BLUE 15:3 (C.I. 74160)			41	1.70	400	6-8	5	5	5	5	5	5	5	5	8	8	8	7	4	5	●	●	●	●	●	○	●	●	●	●	●	
FIRST GREEN G-EX GREEN 7 (C.I. 74260)			37	1.70	400	6-8	5	5	5	5	5	5	5	5	8	8	8	7	4	5	●	●	●	○	●	●	●	●	●	●	●	Yellow Shade
FIRST GREEN GB GREEN 7 (C.I. 74260)			32	1.70	450	6-8	5	5	5	5	5	5	5	5	8	8	8	7	4	5	●	●	●	○	●	●	●	●		●	●	Blue Shade

FIRSTCOLOR

INORGANIC PIGMENT

Product Name C.I. Pigment C.I. No	Full Shade (5% Pigment)	Tint (1:10)	Phy. Data				Resistance to solvent						Chemical Resistance		Light Fastness		Weather Fastness		Heat Resistance		Application										Note
																					Inks				Paints				Plastics			
			Oil Absorption (gr/100g)	Specific Gravity (gr/cm3)	Bulking Value (cm3/100g)	pH	Water	M.E.K	Xylene	Linseed Oil	Ethanol	D.O.P	5% Hcl	5% NaOH	Mass	Tint (1:10)	Mass	Tint (1:10)	210°C x 10min	150°C x 10min	Offset Printing	Gravoure Printing	Packaging Printing	Aqueous	Solvent	Aqueous	General Industrial	Coating	PVC	Polyolefins	Rubber	
FIRST YELLOW 101G YELLOW 34 (C.I. 77600)			19	5.30	140	5-7	4	4	4	4	4	4	4	3	5	4	4	3	4	5	○	○	○	○	●	●	●	○	○	●		Lemon Chrome Yellow
FIRST YELLOW 505 YELLOW 34 (C.I. 77600)			19	5.40	130	5-7	4	4	4	4	4	4	4	3	5	4	4	3	4	5	○	○	○	○	●	●	●	○	○	●		Reddish Shade
FIRST YELLOW 707G YELLOW 34 (C.I. 77600)			19	5.20	140	5-7	4	4	4	4	4	4	5	5	6	5	5	4	5	5	○	○	○	○	●	●	●	○	○	●		Medium Chrome Yellow and Good Fastness
FIRST YELLOW 707 YELLOW 34 (C.I. 77600)			19	5.40	140	5-7	4	4	4	4	4	4	4	3	5	4	4	3	4	5	○	○	○	○	●	●	●	○	○	●		Medium Chrome Yellow
FIRST YELLOW L-2722 YELLOW 34 (C.I. 77600)			28	5.00	240	5-7	4	4	4	4	4	4	5	4	6	5	5	4	4	5	○	○	○	○	●	●	●	○	○	○		Bright Chrome Shade and Good Fastness
ROYAL YELLOW 1000 YELLOW 34 (C.I. 77600)			24	4.00	270	5-7	5	5	5	5	5	5	5	5	8	7	8	7	5	5	○	○	○	○	●	●	●	●	●	●	○	Encapsulated Thermo Grade
ROYAL YELLOW 4000 YELLOW 34 (C.I. 77600)			20	3.90	250	5-7	5	5	5	5	5	5	5	5	8	7	8	7	5	5	○	○	○	○	●	●	●	●	●	●	○	Encapsulated Traffic Thermo Grade
ROYAL YELLOW 4100 YELLOW 34 (C.I. 77600)			24	4.10	250	5-7	5	5	5	5	5	5	5	5	8	7	8	7	5	5	○	○	○	○	●	●	●	●	●	●	○	Encapsulated Thermo Grade
ROYAL YELLOW 5000 YELLOW 34 (C.I. 77600)			20	4.10	260	5-7	5	5	5	5	5	5	5	5	8	7	8	7	5	5	○	○	○	○	●	●	●	●	●	●	○	Encapsulated Thermo Grade
FIRST RED 700 RED 104 (C.I. 77605)			16	5.50	180	5-7	4	4	4	4	4	4	4	4	6	4	4	4	4	5	○	○	○	○	●	●	●	○	○	○		Molybdate Orange Standard Color
FIRST RED 2222ST RED 104 (C.I. 77605)			20	5.40	190	5-7	4	4	4	4	4	4	5	4	6	4	6	5	4	5	○	○	○	○	●	●	●	●	○	○	●	Good Color Strength

FIRSTCOLOR

INORGANIC PIGMENT

Product Name C.I. Pigment C.I. No	Full Shade (5% Pigment)	Tint (1:10)	Phy. Data				Resistance to solvent						Chemical Resistance		Light Fastness		Weather Fastness		Heat Resistance		Application										Note
																					Inks				Paints				Plastics			
			Oil Absorption (gr/100g)	Specific Gravity (gr/cm3)	Bulking Value (cm3/100g)	pH	Water	M.E.K	Xylene	Linseed Oil	Ethanol	D.O.P	5% Hcl	5% NaOH	Mass	Tint (1:10)	Mass	Tint (1:10)	210°C x 10min	150°C x 10min	Offset Printing	Gravoure Printing	Packaging Printing	Aqueous	Solvent	Aqueous	General Industrial	Coating	PVC	Polyolefins	Rubber	
ROYAL RED 7000 RED 104 (C.I. 77605)			22	4.70	240	5-7	5	5	5	5	5	5	5	5	8	7	7	6	5	5	○	○	○	○	●	●	●	●	●	●	●	Encapsulated Thermo Orange
ROYAL RED 8000 RED 104 (C.I. 77605)			21	4.40	250	5-7	5	5	5	5	5	5	5	5	8	7	7	6	5	5	○	○	○	○	●	●	●	●	●	●	●	More Strong Color Strength

FIRSTCOLOR

FOR PAINTS, INKS, & PLASTICS

PIGMENTS

FIRST COLOR CO,.LTD.

Sihwa Factory
70, Gongdan 1-Daero, 28 Beon-Gil,
Siheung-city, Gyeonggi-Do, Korea

Tel : +(82) 31-432-6977
Fax : +(82) 31-715-6329

E-mail : info@first-color.com
website : www.first-color.com

Chungju Factory
32, Cheomdansaneop 6-ro,
Daesowon-Myeon, Chungju-city,
Chungcheong Bukdo, Korea

Tel : +(82) 43-849-7600
Fax : +(82) 43-848-7601

Printed in Korea. Dec 2015

INTERNATIONAL BS EN ISO 9001 UKAS QUALITY MANAGEMENT

FIRSTCOLOR