



ZDH 天津永棣  
TIANJINLEADING

天津永棣进出口有限公司  
TIANJIN LEADING IMPORT & EXPORT CO.,LTD





## 公司简介

**天津永棣进出口有限公司**，创建于1997年，是中国商务部批准的拥有自营进出口权的企业。致力于染料，颜料和化工产品的生产、研发和销售，现已经成为染料，颜料和化工产品的主流供应商。

公司成立以来，坚持以国内外市场需求为导向，高度重视与客户的沟通和交流，以产品质量为中心，以生产安全为保证，把企业效益、社会效益和环境效益作为综合目标，注重科技进步与创新，促进企业全面协调可持续发展。公司技术先进，管理严格，科研实力雄厚，经过全体员工的努力，2008年通过ISO9000认证，产品自营出口二十多个国家，深受国外市场的欢迎与信任。

**尊重、沟通、创新**一直我们所恪守的经营理念。倾听客户的要求，满足客户的需要，协助客户取得更大的成功。我们真诚的期待与您长期友好地合作，共同发展，共铸辉煌。

**Tianjin Leading Import & Export Co.,Ltd** was established in 1997, we are an import & export company certified by Ministry of Commerce of the People's Republic of China. We focus on the research, production and sales of dyestuff, pigment and chemicals. Our company has been one of the leading suppliers in China.

Since the establishment of our company, we have been insisting on the market-oriented policy, attaching great importance to the communication with customers, focusing on production safety guarantee, aiming at enterprise benefit, social benefit and environment benefit, paying attention to scientific & technological advance and innovation, and promoting coordinated and sustainable development of enterprise. We have advanced technology, strict management, strong scientific research strength. Our company passed through the ISO9000 Certification in 2008 through the effort of all the staff. Our products have been exported to more than twenty countries which were deeply welcomed and trusted by our customers.

**Respecting, Understanding and Improving** have always been our operation philosophy. We sincerely listen to customers' requirement, meet customers' need and help customers be more successful. We sincerely look forward to working with your long-term friendly cooperation, common development and create brilliant.



- 05 Acid Dyes
- 06 Basic Dyes
- 07 Sulphur Dyes
- 08 Vat Dyes
- 09 Direct Dyes
- 10 Naphthol Dyes





WORKSHOP  
车间  
LABORATORY  
实验室



FACTORY  
工厂  
WAREHOUSE  
仓库





ABOUT  
OUR HONOR.  
|我们的荣誉|



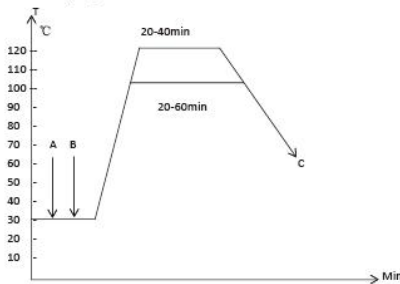


# ZDH<sup>®</sup> Acid Dyes

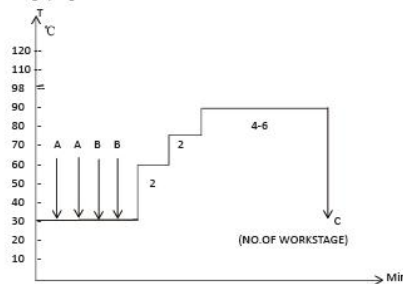
Item	Product Name	C. I. No.	Fastness		
			Light	Soaping	Rubbing
01	Acid Light Yellow G	Yellow 11	5-6	4-5	5
02	Acid Yellow 2G	Yellow 17	5-6	4-5	5
03	Metanil Yellow	Yellow 36	3-4	4	4-5
04	Acid Orange II	Orange 7	4	4	4-5
05	Carmoisine	Red 14	6	3-4	4-5
06	Acid Brilliant Scarlet 3R	Red 18	3-4	4-5	3
07	Acid Rhodamine B Extra	Red 52	3	3-4	-
08	Acid Brilliant Red MOO	Red 73	4-5	4	2-3
09	Tracid Violet 10B	Violet 54	1-2	4	4-5
10	Acid Sky Blue A	Blue 1	2	3	2-3
11	Acid Blue EA	Blue 9	3	3	4
12	Acid Blue AS	Blue 25	5-6	3	4-5
13	Acid Ink Blue G	Blue 93	-	-	-
14	Tracid Green BG	Green 27	-	-	-
15	Tracid Nylon Brown BR	Brown 2	5-6	3	4-5
16	Acid Mordant Brown RH	Brown 33	-	-	-
17	Acid Leather Brown B	Brown 75	-	-	-
18	Acid Black 10B	Black 1	6-7	4-5	4
19	Acid Black ATT	Mixture	6-7	4-5	4-5
20	Nigrosine Black Granular	Black 2	5-6	4-5	5
21	Acid Chrome Black T	Black 11	7	4-5	3-4
22	Neuter Black S-RL	Black 172	7	4-5	-
23	Neuter Black M- RL	Black 194	7	4-5	-
24	Acid Leather Black BNG	Black 210	-	-	-
25	Acid Leather Black 2BNG	Black 234	-	-	-

### Application of Acid dyes

#### 1. Exhaust dyeing



#### 2. Jig dyeing



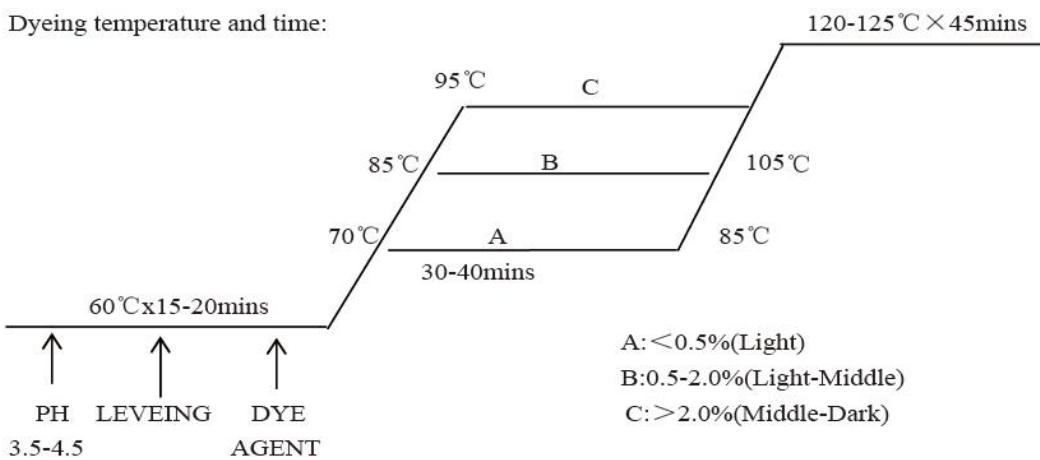
- A. ACID LEVELING AGENT.....1-3%
- FOAM SUPPRESSOR AND WETTING AGENT .....0.2-0.5(G/L)
- AMMONIUM SULPHATE.....1-2(G/L)
- B. DYESTUFFS.....X%
- C. WASHING

## ZDH<sup>®</sup> Basic Dyes

Item	Product Name	C. I. NO.	Fastness			
			Light	Washing	Rubbing	
					Dry	Wet
01	Auramine O Conc	Yellow 2	1-2	3	4-5	4-5
02	Chrysoidine Crystal	Orange 2	1-2	2-3	4-5	2-3
03	Rhodamine 6 GDN	Red 1	2	3-4	—	—
04	Methyl Violet 2B Crystal	Violet 1	1	1-2	—	—
05	Rhodamine B Extra	Violet 10	1-2	3-4	4	3-4
06	Victoria Pure Blue BO	Blue 7	1-2	4	3-4	2-3
07	Methylene Blue BB	Blue 9	1	2-3	3-4	2-3
08	Malachite Green Crystal	Green 4	2	3	4	3-4
09	Bismark Brown G	Brown 1	1	3-4	4	3-4
10	Cationic Yellow X-8GL	Yellow 13	5-6	4-5	5	5
11	Cationic Golden Yellow X-GL	Yellow 28	6-7	4-5	5	4-5
12	Cationic Ationic Brill.. Flavine X-10GFF	Yellow 40	3-4	4-5	5	4
13	Cationic Pink X-FG	Red 13	4-5	4-5	4-5	5
14	Cationic Brill. Red X-5GN	Red 14	3-4	4-5	5	4
15	Cationic Red 3R	Red 16	3-4	4-5	4-5	5

### Application of Cationic Dyestuff

Dyeing temperature and time:



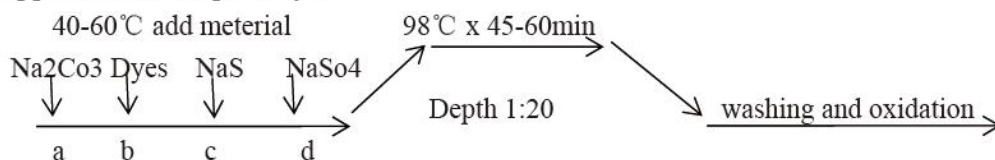
Note: after dyeing, washing with water for light, reducing washing with  $\text{Na}_2\text{CO}_3$  1-2g/l,  $\text{Na}_2\text{SO}_4$  2g/l, for middle and dark

Finalized: 170-180°C x 30mins

## ZDH<sup>®</sup> Sulphur Dyes

Item	Product Name	C.I.NO.	Dyeing Temp. °C	Fastness			
				Light	Washing	Rubbing	
						Dry	Wet
01	Sulphur Light Yellow GC 250%	Yellow 2	95	3-4	4	4-5	3
02	Sulphur Yellow Brown GDR 100%	Orange 1	95	3-4	3-4	3-4	2-3
03	Sulphur Bordeaux 3B 100%	Red 6	95	4	4	4	2-3
04	Sulphur Red GGF 100%	Red 14	95	4	4-5	4-5	—
05	Sulphur Fast Blue 3R 100%	Blue 5	75	5	3	4	2
06	Sulphur Blue BRN 150%	Blue 7	75	5-6	3-4	4-5	2
07	Sulphur Green Blue CV 120%	Blue 15	95	6-7	3-4	4	1-2
08	Sulphur Brill. Green GB 100%	Green 3	95	5	3	4-5	3
09	Sulphur Light Green 7713 300%	Green 14	95	6-7	4-5	4-5	2-3
10	Sulphur Olive Green 200%	Mix	95	5	3	3	2
11	Sulphur Green 511 300%	Mix	95	5	3	3-4	—
12	Sulphur Green 611 300%	Mix	95	5	3	3-4	—
13	Sulphur Dark Brown GD 150%	Brown 4	95	4	4	4	2
14	Sulphur Yellow Brown 5G 150%	Brown 10	95	3	3-4	4	2-3
15	Sulphur Black BR 200%	Black 1	95	5	3	2-3	2
16	Solubilized Sulphur Black BR	Black 1	95	5	3	2-3	2-3
17	Liquid Sulphur Black BR	Black 1	95	5	3	2-3	2

### Application of Sulphur dyes:



Note:

- ① a--Na<sub>2</sub>CO<sub>3</sub> (g/L); b--x%(o.w.f.); c--Na<sub>2</sub>S:dyes=2~1:1; d--Na<sub>2</sub>SO<sub>4</sub>(5-10g/L);
- ② The dyes is applied in advance to the commendation(wetting);
- ③ After add dyes, usually heat at 1°C/min, heating to 98-100°C, and then keep the temperature 45-60 min for dyeing.
- ④ After dyeing, washing → Oxidation of air or oxidants, 40°C and keeping 20min → washing → drying

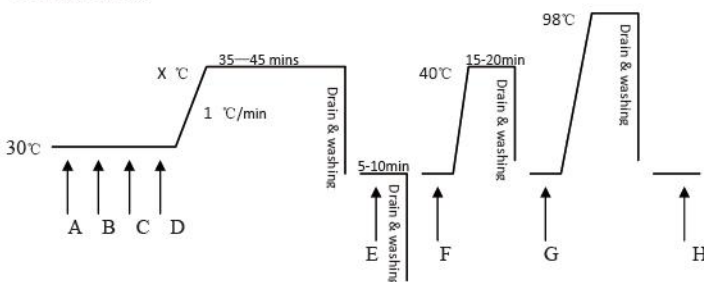


# ZDH<sup>®</sup> Vat Dyes

Item	Product Name	C.I. No.	Fastness				
			(Xenon) Light	Washing 95°C	Hypochlorite	Rubbing	
						Dry	Wet
01	Vat Yellow G	Yellow 1	4	3-4	4G	4-5	4
02	Vat Yellow GCN	Yellow 2	5	4	4	4-5	4
03	Vat Brill. Orange GR	Orange 7	6-7	4	4-5	4	3-4
04	Vat Golden Orange G	Orange 9	6	4	4-5	4-5	3-4
05	Vat Pink R	Red 1	5-6	4	4-5	4-5	3-4
06	Vat Bordeaux 2R	Red 15	6-7	4-5	4-5	4	3
07	Vat Violet 2R	Violet 1	7	4	4-5	4-5	3-4
08	Vat Violet 3B	Violet 9	7	4	4-5	4	3
09	Vat Blue RSN	Blue 4	7	3-4	2LT	4-5	3-4
10	Vat Pure Blue BC	Blue 6	7	4	3-4DT	3-4	3
11	Vat Deep Blue BO	Blue 20	6-7	2-3	4-5	4-5	3-4
12	Vat Dark Blue VB	Mixture	7	3-4	2-3LT	4-5	3-4
13	Var Green FFB	Green 1	7	4	4-5	4-5	3
14	Vat Olive Green B	Green 3	6-7	3-4	4-5	4-5	3-4
15	Vat Grass Green	Mixture	7	4	2-3L	4	3
16	Vat Brown R	Brown 3	6-7	4	4-5	4-5	3-4
17	Vat Brown G	Brown 68	6	4	4	4-5	3
18	Vat Brown GS	Mixture	7	4	4G	4-5	3-4
19	Vat Grey 3B	Black 16	7	3-4	4	3-4	3
20	Vat Olive T	Black 25	7	4	4	4	3-4

## Application of Vat Dyes

### 1. Exhaust dyeing



- A— Soda Ash
- B— Dyes
- C— Levelling agent (as needed)
- D— Sodium Hydrosulfite
- E— Overflow washed for 5min, then washed 1-2 times.
- F— H<sub>2</sub>O<sub>2</sub> (27%) 2-4% (O.W.F.) (the effective chlorine with 2g/L was oxidized for 20 ~ 30min when the black BB was oxidized.)
- G— Soap lotion 3% (O.W.F.)
- H— Soft or other post-treatment.
- X— Dyeing temperature is determined by the dyes properties

## ZDH<sup>®</sup> Direct Dyes

Item	Product Name	C.I.No.	Fastness			
			Light (Xenon)	Washing	Rubbing	
					Dry	Wet
01	Direct Yellow R	Yellow 11	3-4	2-3	4	2-3
02	Chrysophenine GX	Yellow 12	2	2-3	4	3
03	Direct Fast Light Yellow 5G	Yellow 27	5	2	4-5	2-3
04	Direct Fast Yellow D-RL	Yellow 86	6	2-3	4-5	3
05	Direct Orange S	Orange 26	2	1-2	4-5	3
06	Direct Fast Orange D-GGL	Orange 39	6-7	4	4-5	3-4
07	Direct Scarlet 4BS	Red 23	2-3	3	3	2
08	Congo Red	Red 28	2	3	3	2
09	Direct Pink 12B	Red 31	2	3	4-5	2
10	Direct Ruby D-BLL	Red 83:1	3-4	4-5	4-5	3-4
11	Direct Red FGG	Red 224	3-4	4-5	3-4	3
12	Direct Rose D-FR	Red 227	3	4-5	4	3
13	Direct Fast Red BWS	Red 243	5	4-5	3-4	3
14	Direct Bordeaux FBA	--	2	2-3	4-5	3
15	Direct Sky Blue 5B	Blue 15	1-2	2-3	4-5	3
16	Direct Fast Blue B2R	Blue 71	5-6	3-4	4	2-3
17	Direct Fast Turq. Blue GL	Blue 86	6-7	2	4	3
18	Direct Fast Blue FFRL	Blue 108	6	4	4-5	3
19	Direct Copper Blue 2B	Blue 151	5	2-3	4-5	3
20	Direct Fast Turq. Blue FBL	Blue 199	6-7	3	3-4	2-3
21	Direct Fast Brill Blue GL	Blue 293	5	4	5	4-5
22	Direct Dark Green BE	Green 1	3	2	4	3-4
23	Direct Dark Green BN	Green 6	3	2	4	3-4
24	Direct Deep Brown MN	Brown 2	3-4	3-4	4-5	2
25	Direct Fast Brown GTL	Brown 210	7	4-5	4	3
26	Direct Brown RN	--	3-4	3	4-5	3
27	Direct Fast Black G	Black 19	4	4-5	4	2
28	Direct Fast Black VSF	Black 22	6	4-5	4-5	3
29	Direct Black EX	Black 38	4	3	4	3



## ZDH<sup>®</sup> Naphthol Dyes

Item	Product Name	C. I. No.
01	Naphthol AS	Azoic Coupling Component 2
02	Naphthol AS – BS	Azoic Coupling Component 17
03	Naphthol AS – BO	Azoic Coupling Component 4
04	Naphthol AS – G	Azoic Coupling Component 5
05	Naphthol AS-OL	Azoic Coupling Component 20
06	Naphthol AS-D	Azoic Coupling Component 18
07	Naphthol AS-PH	Azoic Coupling Component 14
08	Fast Scarlet G Base	Azoic Diazo Component 12
09	Fast Scarlet RC Base	Azoic Diazo Component 13
10	Fast Scarlet R Base	Azoic Diazo Component 13:1
11	Fast Bordeaux GP Base	Azoic Diazo Component 1
12	Fast Red B Base	Azoic Diazo Component 5
13	Fast Red RC Base	Azoic Diazo Component 10
14	Fast Garnet GBC Base	Azoic Diazo Component 4
15	Fast Yellow GC Base	Azoic Diazo Component 44
16	Fast Orange GC Base	Azoic Diazo Component 2

### Application of Direct Dyes

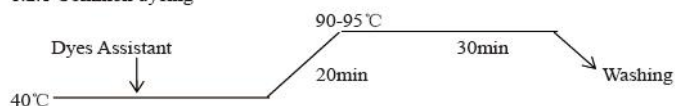
#### 1. Exhaust dyeing

##### 1.1 recipe of dyeing bath

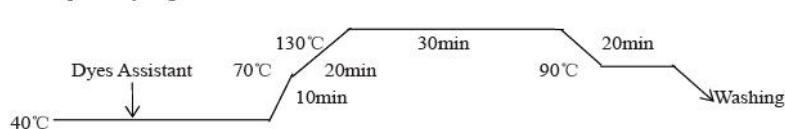
Dyeing method	Weak alkli	Neutral
Dye,% (owf)	x	y
Na <sub>2</sub> CO <sub>3</sub> ,% (owf)	1 ~ 2	-
Na <sub>2</sub> SO <sub>4</sub> ,% (owf)	10 ~ 30	10 ~ 30

##### 1.2 Dyeing procedure

###### 1.2.1 Common dyeing



###### 1.2.2 Special dyeing



### 2. Padding

#### 2.1 Recipe of padding liquor

Dyes.....	x
Levelling agent.....	10g
Na <sub>3</sub> PO <sub>4</sub> .....	100g
Adding water to	50L

#### 2.2 procedure

Padding( liquor pick-up: 80%, Temp.: 60 °C )→Steaming ( Temp.: 100-103 °C , Time:1-4min )→Washing→Fixing→Washing→Drying

# ZDH<sup>®</sup> Organic Pigment

Color Shade		Products		Physical Properties		Chemical Properties					Applications							
Full shade	Tint	Item No.	C.I.No.	Oil Absorption ml/100g	Density g/cm <sup>3</sup>	Heat Resistance	Weather Resistance	Light Resistance	Solvent Resistance	Acid & Alkali Resistance	Inks			Coatings			Textile Printing Paste	Rubber And Plastic
											Solvent Ink	Offset Ink	Water-Based Ink	Solvent Coating	Water Based Coating	Powder Coating		
		Benzidine Yellow G	P.Y. 12	50	1.3~1.5	180	5	5	5	5	⊙		⊙	★	⊙	⊙	⊙	⊙
		Permanent Yellow G	P.Y. 14	55	1.2~1.6	180	5	6	5	5	★	⊙	⊙	⊙	⊙			⊙
		Permanent Yellow 5GX	P.Y. 74	45	1.3~1.7	190	5	8	5	5	⊙	⊙	★	⊙	★	⊙	⊙	⊙
		Permanent Yellow HR	P.Y. 83	50	1.3~1.5	200	5	5	5	5	⊙	⊙	★	★	⊙	★	⊙	★
		Fast Yellow 4G	P.Y. 150	50	1.9~2.2	200	4	7	4	4	★		⊙		⊙	⊙		
		Benzidine Yellow LB	P.Y.174	50	1.2~1.4	160	5	4	5	4		★			⊙			
		Permanent Orange G	P.O. 13	45	1.4~1.6	180	5	4	5	4	⊙	⊙	⊙	⊙	★	⊙	⊙	⊙
		Toluidine Red RN	P.R.3	45	1.3~1.5	140	5	4	4	4				⊙	⊙	⊙		
		Fast Scarlet 2R	P.R.8	45	1.2~1.5	140	4	4	4	4		⊙	★		⊙			
		Fast Red 2R	P.R. 21	45	1.3~1.5	160	5	6	5	5				⊙	★	⊙		
		Fast Red BBN	P.R.48:1	40	2.0~2.2	180	5	4	5	4	⊙	⊙		⊙	⊙	⊙		
		Fast Red BBC	P.R.48:2	50	1.6~1.9	180	5	4	5	3		★	⊙			⊙		⊙
		Fast Red BBS	P.R.48:3	50	1.6~1.9	200	5	4	5	3	⊙	⊙		⊙	⊙	⊙		⊙
		Fast Red BBM	P.R.48:4	45	1.6~1.8	180	5	4	4	4	⊙	★	★	⊙	⊙	⊙	⊙	⊙



		Fast Lithol Red R	P.R.49:1	50	1.6~1.8	140	4	3	3	3			◎	◎	◎	◎		
		Lake Red C	P.R.53:1	50	1.7~1.9	160	5	3	3	3	◎	◎	◎	◎	◎	★		◎
		Lithol Rubine 4BN	P.R.57:1	75	1.5~1.7	160	5	3	5	3	◎	◎	◎	◎	◎	◎	◎	◎
		Fast Pink Toner	P.R.81	50	1.6~1.9	140	4	4	4	4	★	◎	★					
		Fast Red FGR	P.R. 112	75	1.4~1.6	160	5	5	3	5	★	◎	◎	★	★	★	◎	◎
		Fast Pink E	P.R. 122	55	1.35~1.5	180	5	7	5	5	◎	◎	★	◎	◎	◎	◎	★
		Fast Red FBB	P.R.146	65	1.3~1.5	180	5	5	5	4	★	◎	★					
		Fast Red W	P.R.169	50	1.6~1.9	120	4	3	3	4	◎	◎	★					
		Fast Red F2RK	P.R.170	75	1.3~1.5	180	5	5	4	5	◎	◎	◎	★	★	★		★
		DPP Red 254	P.R.254	50	1.5~1.7	200	5	5	5	5	◎	◎	★	◎	◎	◎	◎	◎
		Phthalo Blue BS	P.B.15:1	45	1.3~1.8	240	5	7	5	5			★	◎	★			★
		Phthalo Blue BGS	P.B.15:3	45	1.3~1.8	280	5	7	5	5	◎	◎	★	★	★	★	◎	★
		Pigment Green G	P. G. 7	45	1.8~2.5	300	5	8	5	5	◎	◎	◎	★	◎	◎	◎	◎
		Fast Violet Toner R	P. V. 3	45	2.1~2.4	170	5	7	5	4	★	◎	★					
		Quinaclidone Violet	P.V.19	50	1.4~1.6	200	5	5	5	5	◎	◎	◎	◎	◎	◎	◎	◎
		Permanent Violet BL	P.V. 23	50	1.4~1.6	280	5	7	5	5	◎	◎	◎	◎	◎	◎	◎	◎

★ Recommended    ◎ Limit Suitability

The sheet data is based on our lab and experiences, many possible factors which can affect the use and application of our products. For all further technical information, please ask for our detailed technical data sheet

# ZDH<sup>®</sup> Solvent Dyes

COLOR CARD	PRODUCT NAME	C.I.NO.
	Oil Orange G	Solvent Yellow 14
	Oil Red BR	Solvent Red 24
	Solvent Red BR	Solvent Red 49
	Solvent Blue 2N	Solvent Blue 35
	Transparent Yellow GK	Solvent Yellow 56
	Transparent Yellow 3G	Solvent Yellow 93
	Transparent Yellow 5R	Solvent Yellow 163
	Transparent Orange 3G	Solvent Orange 60
	Transparent Rose 5B	Solvent Red 52
	Transparent Red TB	Solvent Red 146
	Transparent Violet B	Solvent Violet 13
	Transparent Blue MIP	Solvent Blue 36
	Transparent Blue R	Solvent Blue 122
	Transparent Green 5B	Solvent Green 3
	Transparent Green G	Solvent Green 28
	Transparent Black BN	Solvent Black 3
	Fluorescent Yellow 10GFL	Solvent Yellow 160:1
	Fluorescent Yellow 8GFL	Solvent Green 5



# ZDH<sup>®</sup> Solvent Dyes

COLOR CARD	PRODUCT NAME	C.I.NO.
	Solvent Yellow D803	Solvent Yellow 19
	Solvent Yellow D801	Solvent Yellow 21
	Solvent Yellow D802	Solvent Yellow 82
	Solvent Orange D815	Solvent Orange 54
	Solvent Red D805	Solvent Red 8
	Solvent Red D807	Solvent Red 119
	Solvent Red D806	Solvent Red 122
	Solvent Blue D820	Solvent Blue 70
	Solvent Green D852	Mixture
	Solvent Brown D830	Solvent Brown 43
	Solvent Black D810	Solvent Black 27
	Solvent Black D811	Solvent Black 34

## ZDH<sup>®</sup> Sliver White Series

ITEM NO.	COLOR	PARTICLE SIZE	COMPOSITION
ZDH100	Sliver Pearl	10-60µm	Mica,TiO <sub>2</sub>
ZDH103	Rutile Sterling Sliver	10-60µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH108	Rutile Fine Satin	<10µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH110	Sliver Fine Satin	<15µm	Mica,TiO <sub>2</sub>
ZDH111	Rutile Sliver Fine Satin	<15µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH118	Sliver Fine Satin	5-20µm	Mica,TiO <sub>2</sub>
ZDH120	Luster Satin	5-25µm	Mica,TiO <sub>2</sub>
ZDH121	Rutile Luster Satin	5-25µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH151	Luster Satin	10-100µm	Mica,TiO <sub>2</sub>
ZDH153	Flash Pearl	20-100µm	Mica,TiO <sub>2</sub>
ZDH163	Shimmer Pearl	40-200µm	Mica,TiO <sub>2</sub>
ZDH173	Silk Pearl	10-40µm	Mica,TiO <sub>2</sub>
ZDH183	Special Flash Pearl	50-500µm	Mica,TiO <sub>2</sub>

## ZDH<sup>®</sup> Interference Series

ITEM NO.	COLOR	PARTICLE SIZE	COMPOSITION
ZDH205	Platinum Gold	10-60µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH208	Gold Pearl	10-60µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH215	Red Pearl	10-60µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH217	Copper Pearl	10-60µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH219	Purple Pearl	10-60µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH225	Blue Pearl	10-60µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH235	Green Pearl	10-60µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH201	Gold Satin	5-25µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH211	Red Satin	5-25µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH221	Blue Satin	5-25µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH223	Violet Satin	5-25µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH231	Green Satin	5-25µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH249	Shimmer Gold	10-100µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH259	Shimmer Red	10-100µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH289	Shimmer Blue	10-100µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>
ZDH299	Shimmer Green	10-100µm	Mica,TiO <sub>2</sub> ,SnO <sub>2</sub>

## ZDH<sup>®</sup> Gold Luster Series

ITEM NO.	COLOR	PARTICLE SIZE	COMPOSITION
ZDH300	Gold Pearl	10-60µm	Mica,TiO <sub>2</sub> ,Fe <sub>2</sub> O <sub>3</sub>
ZDH301	Metal Gold	10-60µm	Mica,TiO <sub>2</sub> ,Fe <sub>2</sub> O <sub>3</sub>
ZDH302	Gold Satin	5-25µm	Mica,TiO <sub>2</sub> ,Fe <sub>2</sub> O <sub>3</sub>
ZDH303	Royal Gold	10-60µm	Mica,TiO <sub>2</sub> ,Fe <sub>2</sub> O <sub>3</sub>
ZDH304	Mayan Gold	10-60µm	Mica,TiO <sub>2</sub> ,Fe <sub>2</sub> O <sub>3</sub>
ZDH305	Aztre Gold	10-60µm	Mica,TiO <sub>2</sub> ,Fe <sub>2</sub> O <sub>3</sub>
ZDH306	Olympic Gold	10-60µm	Mica,TiO <sub>2</sub> ,Fe <sub>2</sub> O <sub>3</sub>
ZDH307	Abstruse Gold	10-60µm	Mica,TiO <sub>2</sub> ,Fe <sub>2</sub> O <sub>3</sub>
ZDH308	Classical Gold	10-60µm	Mica,TiO <sub>2</sub> ,Fe <sub>2</sub> O <sub>3</sub>
ZDH320	Sunny Gold	10-60µm	Mica,TiO <sub>2</sub> ,Fe <sub>2</sub> O <sub>3</sub>
ZDH323	Royal Gold Satin	5-25µm	Mica,TiO <sub>2</sub> ,Fe <sub>2</sub> O <sub>3</sub>
ZDH351	Shimmer Gold	10-100µm	Mica,TiO <sub>2</sub> ,Fe <sub>2</sub> O <sub>3</sub>
ZDH353	Shimmer Reddish Gold	10-100µm	Mica,TiO <sub>2</sub> ,Fe <sub>2</sub> O <sub>3</sub>



## ZDH<sup>®</sup> Colored Effect Series

ITEM NO.	COLOR	PARTICLE SIZE	COMPOSITION
ZDH401	Luster Black	10-60µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH402	Silver Black	10-60µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH405	Luster Blue	10-60µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH407	Silver Gray	10-60µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH408	Cyan Green	10-60µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH409	Fenda Orange	10-60µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH410	Cupreous Brown	10-60µm	Mica,Fe <sub>2</sub> O <sub>3</sub> ,Colorant
ZDH411	Fuscous Brown	10-60µm	Mica,Fe <sub>2</sub> O <sub>3</sub> ,Colorant
ZDH415	Sunny Red	10-60µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH416	Scarlet	10-60µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH418	Rose Red	10-60µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH419	Magic Violet	10-60µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH426	Silky Blue	10-60µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH427	Cobalt Blue	10-60µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH430	Shimmer Fuscous Brown	10-100µm	Mica,Fe <sub>2</sub> O <sub>3</sub> ,Colorant
ZDH435	Yellowish Green	10-60µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH437	Shimmer Green	10-100µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH451	Shimmer Blue	10-100µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH452	Shimmer Red	10-100µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH457	Shimmer Grey	10-100µm	Mica,TiO <sub>2</sub> ,Colorant
ZDH491	Shimmer Yellow	10-100µm	Mica,TiO <sub>2</sub> ,Colorant


## ZDH<sup>®</sup> Metallic Luster Series

ITEM NO.	COLOR	PARTICLE SIZE	COMPOSITION
ZDH500	Bronze	10-60µm	Mica,Fe <sub>2</sub> O <sub>3</sub>
ZDH502	Red-Brown	10-60µm	Mica,Fe <sub>2</sub> O <sub>3</sub>
ZDH504	Wine Red	10-60µm	Mica,Fe <sub>2</sub> O <sub>3</sub>
ZDH505	Mauve	10-60µm	Mica,Fe <sub>2</sub> O <sub>3</sub>
ZDH508	Ruby Red	10-60µm	Mica,Fe <sub>2</sub> O <sub>3</sub>
ZDH510	BronzeBrown	10-60µm	Mica,Fe <sub>2</sub> O <sub>3</sub>
ZDH520	Bronze Satin	5-25µm	Mica,Fe <sub>2</sub> O <sub>3</sub>
ZDH522	Red Brown Satin	5-25µm	Mica,Fe <sub>2</sub> O <sub>3</sub>
ZDH524	Wine Red Satin	5-25µm	Mica,Fe <sub>2</sub> O <sub>3</sub>
ZDH525	Mauve Satin	5-25µm	Mica,Fe <sub>2</sub> O <sub>3</sub>
ZDH530	Shimmer Bronze	10-100µm	Mica,Fe <sub>2</sub> O <sub>3</sub>
ZDH532	Shimmer Red Brown	10-100µm	Mica,Fe <sub>2</sub> O <sub>3</sub>
ZDH534	Shimmer Wine Red	10-100µm	Mica,Fe <sub>2</sub> O <sub>3</sub>
ZDH535	Shimmer Mauve	10-100µm	Mica,Fe <sub>2</sub> O <sub>3</sub>





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