



# METEORS CHEMICAL COMPANY LTD

Amman, Jordan [www.astrainks.com](http://www.astrainks.com)

## Technical Data Sheet

### Product description

Product Name: Permanent Orange W6213 Water based ink

Color Index: **Pigment Orange 13**

C.I.No. 21110

CAS No. 3520-72-7

EC No. 222-530-3

Chemical Group:Disazo

Chemical Formula: **C32H24Cl2N8O2**

### Physical Properties

Test Item	Specification	Results
Cont of water % $\leq$	2.5	1.24
Soluble matter in water % $\leq$	2.0	0.59
Oil absorption %	45 $\pm$ 5	42.4
Water permeate (grade)	5	1.2
Oil permeate (grade)	5	3.5
Conductivity ( $\mu\text{m}/\text{cm}$ ) $\leq$	250	246
Quality of total (ppm)	200	178
Residues passing through(100mesh)% $\leq$	5.0	0.59
Ph value	6.5- ~ 7.5	6.62

### Fastness Properties (5=excellent, 1=poor)

Acid Resistance	3	Soap Resistance	2
Alkali Resistance	3	Bleeding Resistance	3
Alcohol Resistance	2	Value of Viscosity	Low
Ester Resistance	3	Storage stability	Good
Benzene Resistance	4		
Ketone Resistance	3		



## Technical Data Sheet

### Product description

Product Name: Permanent Orange RL C6234 Textile printing

Color Index: **Pigment Orange 34**

C.I.No. 21115

CAS No. 15793-73-4

EC No. 239-898-6

Chemical Group:AZO

Chemical Formula: **C32H26Cl2N8O2**

### Physical Properties

Test Item	Specification	Results
Cont of water % ≤	2.5	1.3
Soluble matter in water %≤	2.0	1.5
Oil absorption %	45±5	48
Water permeate (grade)	5	3.9
Oil permeate (grade)	5	3.9
Conductivity (µm/cm)≤	250	220
Quality of total (ppm)	200	170
Residues passing through(100mesh)% ≤	5.0	3
Ph value	6.5- ~ 7.5	7

### Fastness Properties (5=excellent, 1=poor)

Acid Resistance	3	Soap Resistance	3
Alkali Resistance	4	Bleeding Resistance	4
Alcohol Resistance	3	Light Fastness (8=excellent)	5
Ester Resistance	4		
Benzene Resistance	3		
Ketone Resistance	4		



## Technical Data Sheet

### Product description

Product Name: Lithol Scarlet W6591 Water based ink

Color Index: **Pigment Red 49:1**

C.I.No.15630:1

CAS No. 1103-38-4

EC No. 214-160-6

Chemical Group: Mono Azo

Chemical Formula: **C<sub>20</sub>H<sub>13</sub>O<sub>4</sub>S<sub>1</sub>/2Ba**

### Physical Properties

Test Item	Specification	Results
Cont of water % ≤	2.5	2.46
Soluble matter in water %≤	2.0	1.46
Oil absorption %	45±5	48.3
Water permeate (grade)	5	3.55
Oil permeate (grade)	5	2.99
Conductivity (µm/cm)≤	250	113
Quality of total (ppm)	200	101
Residues passing through(100mesh)% ≤	5.0	0.13
Ph value	~ 6.5-7.5	7.02

### Fastness Properties (5=excellent, 1=poor)

Acid Resistance	3	Soap Resistance	3
Alkali Resistance	3	Bleeding Resistance	4
Alcohol Resistance	3	Value of Viscosity	Low
Ester Resistance	3	Storage stability	Good
Benzene Resistance	3		
Ketone Resistance	4		



## Technical Data Sheet

### Product description

Product Name: Bronze Red C W6531 Water based ink

Color Index: **Pigment Red 53:1**

C.I.No. 15860:1

CAS No. 17852-99-2

EC No. 241-808-5

Chemical Group: Mono Azo lake

Chemical Formula: C<sub>17</sub>H<sub>12</sub>CIN<sub>2</sub>O<sub>4</sub>S<sub>1/2</sub>Ba

### Physical Properties

Test Item	Specification	Results
Cont of water % ≤	2.5	2.15
Soluble matter in water %≤	2.0	1.91
Oil absorption %	45±5	44.9
Water permeate (grade)	5	4.56
Oil permeate (grade)	5	4.13
Conductivity (µm/cm)≤	250	244
Quality of total (ppm)	200	150
Residues passing through(100mesh)% ≤	5.0	0.43
Ph value	6.5- ~ 7.5	7.1 6.5-7.5

### Fastness Properties (5=excellent, 1=poor)

Acid Resistance	3	Soap Resistance	3
Alkali Resistance	3	Bleeding Resistance	3
Alcohol Resistance	4	Value of Viscosity	Low
Ester Resistance	3	Storage stability	Good
Benzene Resistance	2		
Ketone Resistance	3		



## Technical Data Sheet

### Product description

Product Name:Lithol Rubine W6571 Water based ink

Color Index: **Pigment Red 57:1**

C.I.No. 15850:1

CAS No. 5281-04-9

EC No. 226-109-5

Chemical Group:Mono Azo lake

Chemical Formula: C<sub>18</sub>H<sub>12</sub>N<sub>2</sub>O<sub>6</sub> S<sub>Ca</sub>

### Physical Properties

Test Item	Specification	Results
Cont of water % ≤	2.5	0.65
Soluble matter in water %≤	2.0	1.31
Oil absorption %	45±5	44.9
Water permeate (grade)	5	0.76
Oil permeate (grade)	5	4.2
Conductivity (µm/cm)≤	250	216
Quality of total (ppm)	200	100
Residues passing through(100mesh)% ≤	5.0	3.16
Ph value	6.5- ~ 7.5	7.49

### Fastness Properties (5=excellent, 1=poor)

Acid Resistance	3	Soap Resistance	3
Alkali Resistance	3	Bleeding Resistance	2
Alcohol Resistance	3	Value of Viscosity	Low
Ester Resistance	3	Storage stability	Good
Benzene Resistance	2		
Ketone Resistance	3		



## Technical Data Sheet

### Product description

Product Name: Permanent Red FGR for Textile printing

Color Index: **Pigment Red 112**

C.I.No. 12370

CAS No. 6535-46-2

EC No. 229-440-3

Chemical Group: AZO

Chemical Formula: **C<sub>22</sub>H<sub>18</sub>Cl<sub>3</sub>N<sub>3</sub>O<sub>2</sub>**

### Physical Properties

Test Item	Specification	Results
Cont of water % ≤	2.5	1.7
Soluble matter in water % ≤	2.0	1
Oil absorption %	45±5	47.5
Water permeate (grade)	5	3.9
Oil permeate (grade)	5	4.1
Conductivity (µm/cm) ≤	250	210
Quality of total (ppm)	200	193
Residues passing through (100 mesh) % ≤	5.0	3.9
Ph. value	~ 6.5-7.5	6.85

### Fastness Properties (5=excellent, 1=poor)

Acid Resistance	3	Soap Resistance	4
Alkali Resistance	4	Bleeding Resistance	3
Alcohol Resistance	3	Light Fastness (8=excellent)	6-7
Ester Resistance	4		
Benzene Resistance	3		
Ketone Resistance	4		



## Technical Data Sheet

### Product description

Product Name: Rhodamine 6G

Color Index: **Pigment Red 169**

C.I.No. 45160:2

CAS No.12237-63-7

EC No. 235-469-2

Chemical Group: Lake

### Physical Properties

Test Item	Specification	Results
Cont of water % ≤	2.5	0.79
Soluble matter in water %≤	2.0	1.43
Oil absorption %	45±5	44.4
Water permeate (grade)	5	3.3
Oil permeate (grade)	5	1.56
Conductivity (µm/cm)≤	250	108
Quality of total (ppm)	200	190
Residues passing through(100mesh)% ≤	5.0	3.6
Ph value	~ 6.5-7.5	6.6

### Fastness Properties (5=excellent, 1=poor)

Acid Resistance	5	Soap Resistance	5
Alkali Resistance	5	Bleeding Resistance	5
Alcohol Resistance	5	Gloss	Good
Ester Resistance	5	Absorption	45-50
Benzene Resistance	4		
Ketone Resistance	5		



## Technical Data Sheet

### Product description

Product Name: Crystal Violet W6027 Water based ink

Color Index: **Pigment Violet 27**

C.I.No. 42535:3

CAS No.12237-62-6

EC No. 235-468-7

Chemical Group: Triphenylmethane

### Physical Properties

Test Item	Specification	Results
Cont of water % ≤	2.5	2.41
Soluble matter in water %≤	2.0	1.02
Oil absorption %	45±5	49.8
Water permeate (grade)	5	0.4
Oil permeate (grade)	5	2.7
Conductivity (µm/cm)≤	250	239
Quality of total (ppm)	200	104
Residues passing through(100mesh)% ≤	5.0	1.43
Ph value	6.5- ~ 7.5	7.41

### Fastness Properties (5=excellent, 1=poor)

Acid Resistance	4	Soap Resistance	3
Alkali Resistance	3	Bleeding Resistance	3
Alcohol Resistance	4	Value of Viscosity	Low
Ester Resistance	4	Storage stability	Good
Benzene Resistance	4		
Ketone Resistance	3		





## Technical Data Sheet

### Product description

Product Name: Permanent Yellow W3122 Water based ink

Color Index: **Pigment Yellow 13**

C .I. No. 21100

CAS No. 5102-83-0

EC No. 225-822-9

Chemical Group: Disazo

Chemical Formula: **C<sub>36</sub>H<sub>34</sub>Cl<sub>2</sub>N<sub>6</sub>O<sub>4</sub>**

### Physical Properties

Test Item	Specification	Results
Cont of water % ≤	2.5	0.03
Soluble matter in water %≤	2.0	1.43
Oil absorption %	45±5	49.1
Water permeate (grade)	5	0.2
Oil permeate (grade)	5	4.1
Conductivity (µm/cm)≤	250	98
Quality of total (ppm)	200	45
Residues passing through(100mesh)% ≤	5.0	1.96
Ph value	6.5- ~ 7.5	7.13

### Fastness Properties (5=excellent, 1=poor)

Acid Resistance	3	Soap Resistance	4
Alkali Resistance	3	Bleeding Resistance	3
Alcohol Resistance	3	Value of Viscosity	Low
Ester Resistance	3	Storage stability	Good
Benzene Resistance	3		
Ketone Resistance	3		



## Technical Data Sheet

### Product description

Product Name: Permanent Yellow W6188 Water based ink

Color Index: **Pigment Yellow 14**

C .I. No. 21095

CAS No. 5468-75-7

EC No. 226-789-3

Chemical Group: Disazo

Chemical Formula: **C<sub>34</sub>H<sub>30</sub>Cl<sub>2</sub>N<sub>6</sub>O<sub>4</sub>**

### Physical Properties

Test Item	Specification	Results
Cont of water % ≤	2.5	1.23
Soluble matter in water %≤	2.0	0.89
Oil absorption %	45±5	40.9
Water permeate (grade)	5	4.32
Oil permeate (grade)	5	1.59
Conductivity (µm/cm)≤	250	210
Quality of total (ppm)	200	189
Residues passing through(100mesh)% ≤	5.0	3.9
Ph value	6.5- ~ 7.5	6.59

### Fastness Properties (5=excellent, 1=poor)

Acid Resistance	3	Soap Resistance	3
Alkali Resistance	3	Bleeding Resistance	2
Alcohol Resistance	3	Value of Viscosity	Low
Ester Resistance	4	Storage stability	Good
Benzene Resistance	3		
Ketone Resistance	3		



## Technical Data Sheet

### Product description

Product Name: Fast Yellow 5GX C6174 for Coating

Color Index: **Pigment Yellow 74**

C.I.No.11741

CAS No. 6358-31-2

EC No. 228-768-4

Chemical Formula: **C<sub>18</sub>H<sub>18</sub>N<sub>4</sub>O<sub>6</sub>**

### Physical Properties

Test Item	Specification	Results
Cont of water % ≤	2.5	0.65
Soluble matter in water %≤	2.0	0.7
Oil absorption %	45±5	46.2
Water permeate (grade)	5	5
Oil permeate (grade)	5	5
Conductivity (µm/cm)≤	250	180
Quality of total (ppm)	200	103
Residues passing through(100mesh)% ≤	5.0	2.4
Ph value	~6.5-7.5	6.8

### Fastness Properties (5=excellent, 1=poor)

Acid Resistance	3	Soap Resistance	3
Alkali Resistance	3	Bleeding Resistance	4
Alcohol Resistance	3	Migration Resistance	3
Ester Resistance	4	Heat Resistance (°C)	180
Benzene Resistance	3	Light Fastness (8=excellent)	5-6
Ketone Resistance	4		



## Technical Data Sheet

### Product description

Product Name: **Carbon Black**

CAS No.: 1333-86-4

Product Description:

Recommended Application:

Mainly apply in offset ink, gravure ink, flexographic ink and wire & cable.

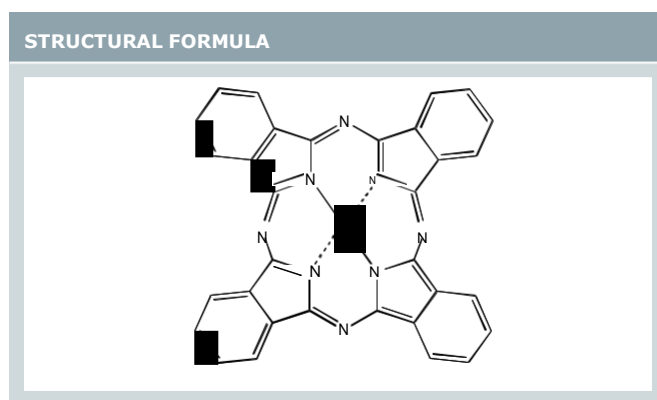
Test Item	Indicator
Primary Particle Size (nm)	32
Surface Area (m <sup>2</sup> /g)	70
DBP Absorption(cc/100g)	51
Coloring Strength (%)	108
PH	8.0
Apparent form by naked eyes	Powder
Note: The above typical properties are for general information only and should not be used for specification purposes. Performance characteristics may vary depending on specific application. All products should be tested in customer's formulation prior to use.	

PRODUCT DESCRIPTION		
Color Index	Pigment Blue 15:3	
C.I. No.	74160	
Chemical Type	Cu-Phthalocyanine, blue beta-mod	
CAS No.	147-14-8	
Hue Angle [1/3 SD]	239.3	DIN EN ISO 53235

PHYSICAL DATA		
Appearance	Blue Powder	
Density [g/cm <sup>3</sup> ]	1.6	DIN EN ISO 787-10
Bulk Volume [ltr/kg]	3.7	DIN 53194
Specific Surface [m <sup>2</sup> /g]	54	DIN EN ISO 66132

FASTNESS PROPERTIES		
Acid	5	DIN EN ISO 787-4
Alkali	5	DIN EN ISO 787-4
Water	5	DIN EN ISO 2836
Ethanol	5	DIN EN ISO 2836
Ethyl Acetate	5	DIN EN ISO 2836
MEK	5	DIN EN ISO 2836
Toluene	5	DIN EN ISO 2836
DOP	5	DIN EN ISO 2836
Paraffin	5	DIN 16524-31965
Butter	5	DIN 16524-31965
Soap	5	DIN 16524-31965
Light Fastness 1/3 SD (print)	8	DIN EN ISO 105-B01
Light Fastness 1/25 SD (print)	7	DIN EN ISO 105-B01

STANDARD PACKAGING	
- 15kg Paper Bags	
- Different types of packaging are available on request	



APPLICATION PROFILE	
Offset	recommended
Publication Gravure	-
Gravure / Flexo, solventborne	potential use
Gravure / Flexo, waterborne	potential use

REGULATIONS	
Germany BfR recom. IX	Compliant
AP 89/1	Compliant
USA (FDA) 21 CFR § 178.3297	Listed
Toys Europe EN 71-3:2013	n.a
Toys USA ASTM F 963-03	Compliant
CONEG, EC 94/62	Compliant
ROHS, 2002/95/E, 2005/618/EC	Compliant
End of Life Vehicles, 2000/53/EC, 2002/525/EC	Compliant

CHEMICAL INVENTORY LISTING STATUS
All ingredients are listed in the following national chemical inventories: EINECS [Europe], TSCA [USA], DSL [Canada], AICS [Australia], NZIoC [New Zealand], MITI [Japan], ECL [Korea], IECSC [China], PICCS [Philippines]



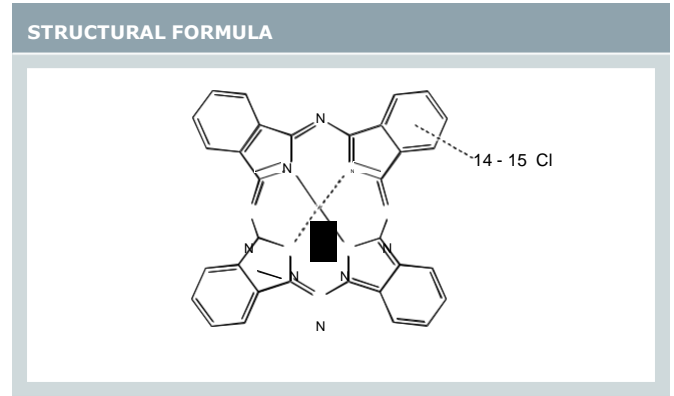
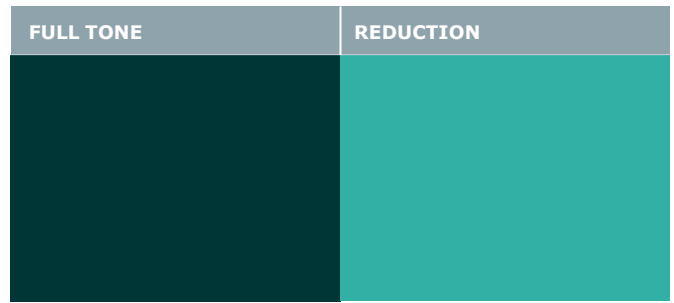
## Technical Data Sheet

PRODUCT DESCRIPTION		
Color Index		Pigment Green 7
C.I. No.		74260
Chemical Type		Cu-Phthalocyanine Green, chlorinated
CAS No.		1328-53-6
Hue Angle [1/3 SD]	176.8	DIN EN ISO 53235

PHYSICAL DATA		
Appearance		Green Powder
Density [g/cm <sup>3</sup> ]	2.1	DIN EN ISO 787-10
Bulk Volume [ltr/kg]	2.5	DIN 53194
Specific Surface [m <sup>2</sup> /g]	47	DIN EN ISO 66132

FASTNESS PROPERTIES		
Acid	5	DIN EN ISO 787-4
Alkali	5	DIN EN ISO 787-4
Water	5	DIN EN ISO 2836
Ethanol	5	DIN EN ISO 2836
Ethyl Acetate	4	DIN EN ISO 2836
MEK	4	DIN EN ISO 2836
Toluene	5	DIN EN ISO 2836
DOP	5	DIN EN ISO 2836
Paraffin	5	DIN 16524-31965
Butter	5	DIN 16524-31965
Soap	5	DIN 16524-31965
Light Fastness 1/3 SD (print)	8	DIN EN ISO 105-B01
Light Fastness 1/25 SD (print)	7-8	DIN EN ISO 105-B01

STANDARD PACKAGING	
-	25kg Paper Bags, 20kg Paper Bags
-	Different types of packaging are available on request



APPLICATION PROFILE	
Offset	recommended
Publication Gravure	-
Gravure / Flexo, Solventborne	recommended
Gravure / Flexo, Waterborne	recommended

REGULATIONS	
Germany BfR recom. IX	Compliant
AP 89/1	Compliant
USA (FDA) 21 CFR § 178.3297	Listed
Toys Europe EN 71-3:2013	n.a
Toys USA ASTM F 963-03	Compliant
CONEG, EC 94/62	Compliant
ROHS, 2002/95/E, 2005/618/EC	Compliant
End of Life Vehicles, 2000/53/EC, 2002/525/EC	Compliant

CHEMICAL INVENTORY LISTING STATUS	
All ingredients are listed in the following national chemical inventories: EINECS [Europe], TSCA [USA], DSL [Canada], AICS [Australia], NZIoC [New Zealand], MITI [Japan], ECL [Korea], IECSC [China], PICCS [Philippines]	

## **Application and Advantage**

Recommended for water based printing system, like water flexo printing ink, corrugated paper printing ink, carton printing ink, food and beverage printing ink, textile, paper cups and coated paper, flexible packaging, calcium chalks, Napkins, Recycled paper.

