

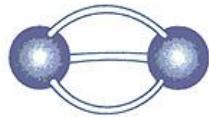
**MATAPEL CHEMICALS**  
• PIGMENT PREPARATIONS  
• SPECIAL ADDITIVES

## TECHNICAL PUBLICATION

### RAINBOW® BLUE 15:0

#### Specifications:

Form	:	Fine Dry Powder		
Pigment Type	:	Stable Copper Pthalocyanine		
C.I. Pigment	:	Blue 15:0		
C.I No.	:	74160		
Oil absorption	:	40.0 g ± 5		
pH	:	6.0 - 8.0		
Light Fastness (Blue Wool Scale)	:	Full Shade	-	7
		Tint Shade (1:40)	-	6
Chemical Resistance	:	Acid	-	5
		Alkali	-	5
Bleed Resistance	:	Water	-	5
		Oil	-	5
Major Application	:	Emulsion Paints (O.B.D/P.E.P) Cement Paints Inks (Letterpress / Offset) Water- Based Liquid Inks (Flexo/ Gravure) Rubber – Natural / Synthetics Plastics (Thermoplasts / Thermosets) Leather cloth / Aqueous Dispersions		



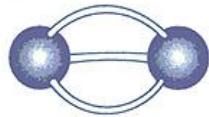
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## TECHNICAL PUBLICATION

### RAINBOW® BLUE 15:1

#### Specifications:

Form	:	Fine Dry Powder		
Pigment Type	:	Pthalocyanine copper complex		
C.I. Pigment	:	Blue 15:1		
C.I No.	:	74160		
Oil absorption	:	38 – 42 %		
pH	:	6.0 - 8.0		
Heat stability	:	Stable up to 280°C		
Light Fastness (Blue Wool Scale)	:	Full Shade	-	8
Chemical Resistance	:	Acid	-	5
		Alkali	-	5
Bleed Resistance	:	Water	-	5
		Oil	-	5
Major Application	:	Paints	:	Water base & Solvent Base. (Solvent Stable)
		Plastics	:	P.P., HDPE, LDPE, LLDPE, PVC. (Heat Stable up to 300°C)
		Inks	:	Water base & Solvent Base. (Solvent Stable)



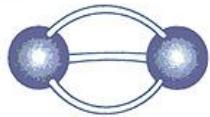
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## TECHNICAL PUBLICATION

### RAINBOW® BLUE 15:2

#### Specifications:

Form	:	100% Dry Toner
Pigment Type	:	Synthetic organic, copper phthalocyanine
C.I. Pigment	:	Blue 15:2
C.I No.	:	74160
Oil Absorption	:	40g / 100g
Specific gravity	:	1.6g/mL
Heat resistance	:	30 Min. in 200 °C - 5 10 Min. in 260 °C - 5
Light Fastness (Blue Wool Scale)	:	Full Shade - 7-8 Tint Shade - 7-8
Chemical Resistance	:	Acid - 5 Alkali - 5
Bleed Resistance	:	Water - 5-6 Ethanol - 5 Toluene - 5-6 Naphtha - 5-6
Major Application	:	Mainly used for paints and coatings. Plastics



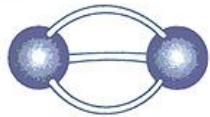
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## TECHNICAL PUBLICATION

### RAINBOW® RED 49:1 WB

#### Specifications:

Form : 100% Dry Toner  
Pigment Type : Monoazo Condensation  
C.I. Pigment : Red 49:1  
C.I. No. : 15630:1  
Oil absorption :  $\leq 50\text{g}/100\text{g}$   
pH : 7.0 – 8.0  
Heat Resistance : 160°C  
Light Fastness : Full Shade - 5  
(Blue Wool Scale)  
Chemical Resistance : Acid - 3  
(5 = excellent) Alkali - 3  
Bleed Resistance : Oil - 3  
(5 = excellent)  
Major Application : Water-based Ink



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## TECHNICAL PUBLICATION

### RAINBOW® RED 53:1 CNL

#### Specifications:

Form : 100% Dry Toner

Pigment Type : Monoazo Condensation

C.I. Pigment : Red 53:1 CNL

C.I. No. : 15585:1

Oil absorption : 45 – 55%

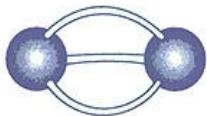
Heat Resistance : 130°C

Light Fastness : Full Shade - 4  
(Blue Wool Scale)

Chemical Resistance : Acid - 4-5  
(5 = excellent) Alkali - 2

Bleed Resistance : Water - 4-5  
(5 = excellent) Oil - 4  
Paraffin Wax - 5

Major Application : Solvent Printing Ink



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## TECHNICAL PUBLICATION

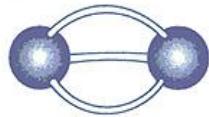
### RAINBOW® RED 53:1 Y

#### Specifications:

Form	:	100% Dry Toner		
Pigment Type	:	Monoazo		
C.I. Pigment	:	Red 53:1		
C.I. No.	:	15585:1		
Oil absorption	:	30 - 50		
pH	:	7.0 – 8.0		
Heat Resistance	:	170°C		
Light Fastness (Blue Wool Scale)	:	Full Shade	-	5
		Tint Shade	-	4
Chemical Resistance	:	Acid	-	3
		Alkali	-	3
Bleed Resistance	:	Ethanol	-	4
		Xylene	-	3
		M.E.K.	-	3
		Mineral Spirit	-	4
		Water	-	5
Major Applications	:	Flexographic and offset printing inks, textile printing, paper and crayons, plastics		

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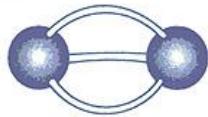
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## TECHNICAL PUBLICATION

### RAINBOW® YELLOW 12 B

#### Specifications:

Form	:	100% Dry Toner
Pigment Type	:	Monoazo Condensation
C.I. Pigment	:	Yellow 12
C.I No.	:	21090
Oil absorption	:	45 – 55%
pH	:	7.50
Heat Resistance	:	180°C
Light Fastness (Blue Wool Scale)	:	Full Shade - 4
Chemical Resistance	:	Acid - 5 Alkali - 4-5
Bleed Resistance	:	Water - 5 Oil - 5 Paraffin Wax - 4-5
Major Application	:	Solvent Printing Ink



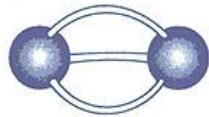
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## TECHNICAL PUBLICATION

### RAINBOW® YELLOW 14 OPAQUE

#### Specifications:

Form	:	100% Dry Toner
Pigment Type	:	Disazo Condensation
C.I. Pigment	:	Yellow 14
C.I No.	:	21095
Oil absorption	:	40 – 55%
pH	:	8.0
Heat Resistance	:	200°C
Light Fastness (Blue Wool Scale)	:	Full Shade - 6
Chemical Resistance	:	Acid - 5 Alkali - 4
Bleed Resistance	:	Water - 5 Oil - 5 Paraffin Wax - 5
Major Application	:	Water-based Printing Ink, Plastic, PVC



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## TECHNICAL PUBLICATION

### RAINBOW® YELLOW 14

#### Specifications:

Form	:	100% Dry Toner
Pigment Type	:	Disazo Condensation
C.I. Pigment	:	Yellow 14
C.I No.	:	21095
Oil absorption	:	40 – 55%
pH	:	8.0
Heat Resistance	:	200°C
Light Fastness (Blue Wool Scale)	:	Full Shade - 6
Chemical Resistance	:	Acid - 5 Alkali - 4
Bleed Resistance	:	Water - 5 Oil - 5 Paraffin Wax - 5
Major Application	:	Water-based Printing Ink, Plastic, PVC