



PT BIPORIN AGUNG
FULLY INTEGRATED COLORANTS COMPANY



BIPOACTIVE DYG*i* DYES & BASE SERIES

- ▶ R/O LIQUID REACTIVE DYES READY TO USE FOR INK FORMULATION
- ▶ HIGH PURITY POWDER REACTIVE DYES (WITH PURITY UP TO 98 %)
- ▶ HIGH PURITY BASE FORM FOR FURTHER REACTION TO PRODUCE REACTIVE DYES



Highly-purified Reactive Liquid Dyes & Highly-purified concentrated salt-free spray-dried Powder Dyes, both ready for ink formulation

BIPOACTIVE DYGi MCT DYES AVAILABLE IN LIQUID OR POWDER FORM

FASTNESS PROPERTIES*	LIGHT ISO 105-B02	LIGHT AATCC 16E 20 AFU	PERSPIRATION (ALK) ISO 105 E04		WASHING (50°C) AATCC 61-2A		CHLORINE (20PPM) ISO 105-E03	CROCKING		PRINTING DEPTH (owp)	
			CHANGE	STAINING	CHANGE	STAINING	CHANGE	DRY	WET	AS LIQUID	AS POWDER
YELLOW 95 (Y95)	5 - 6	4 - 5	5	4 - 5	5	5	4	4 - 5	4	100 g/kg	25 g/kg
ORANGE 12 (O12)	5 - 6	4 - 5	5	4 - 5	5	5	4	4 - 5	4	100 g/kg	20 g/kg
ORANGE 13 (O13)	4 - 5	4	5	5	5	4 - 5	4	4 - 5	4	100 g/kg	20 g/kg
BROWN 11 (BR11)	5	4-5	4-5	4-5	4-5	4-5	3-4	4-5	4	100 g/kg	20 g/kg
RED 245 (R245)	5	4 - 5	4 - 5	4 - 5	4 - 5	4 - 5	4 - 5	4 - 5	3 - 4	100 g/kg	20 g/kg
RED 218 (R218)	4 - 5	4	4 - 5	4 - 5	4 - 5	4 - 5	4 - 5	4 - 5	4	100 g/kg	20 g/kg
RED 24.1 (R24.1)	5	4	4 - 5	4 - 5	5	4 - 5	4	4 - 5	4	100 g/kg	20 g/kg
BLUE 49 (B49)	5 - 6	4 - 5	5	4 - 5	5	4 - 5	3 - 4	4 - 5	4	100 g/kg	20 g/kg
BLUE 72 (B72)	5	4	4 - 5	4 - 5	4 - 5	4 - 5	3	4	3 - 4	100 g/kg	20 g/kg
BLACK 8 (BK8)	4	5 - 6	4	4 - 5	4	4 - 5	3	4 - 5	4	100 g/kg	15 g/kg
BLACK 39 (BK39)	5	4 - 5	4 - 5	4 - 5	4 - 5	4 - 5	4 - 5	4	3 - 4	200 g/kg	50 g/kg

BIPOACTIVE DYGi VS DYES AVAILABLE IN LIQUID OR POWDER FORM

FASTNESS PROPERTIES*	LIGHT ISO 105-B02	LIGHT AATCC 16E 20 AFU	PERSPIRATION (ALK) ISO 105 E04		WASHING (50°C) AATCC 61-2A		CHLORINE (20PPM) ISO 105-E03	CROCKING		PRINTING DEPTH (owp)	
			CHANGE	STAINING	CHANGE	STAINING	CHANGE	DRY	WET	AS LIQUID	AS POWDER
ORANGE 78 (O78)	4	4	4 - 5	4 - 5	4	4 - 5	2	4 - 5	4	100 g/kg	25 g/kg
BLACK 5 (BK5)	5	4 - 5	4 - 5	4 - 5	4 - 5	4 - 5	2 - 3	4	3 - 4	200 g/kg	50 g/kg
DEEP BLACK N (BKN)	5	4 - 5	4 - 5	4 - 5	4 - 5	4 - 5	3	4	3 - 4	200 g/kg	50 g/kg

YELLOW 95
(CI No. Y 95)**AS LIQUID REACTIVE DYES**

pH	6.5 - 8.5
SOLID CONTENT	20 - 25 %
HPLC PURITY (λ 254 nm)	≥ 94%
ION CONTENT (IN PPM)	
CHLORIDE < 100	MAGNESIUM < 50
SULFATE < 100	IRON < 10
CALCIUM < 50	

AS POWDER REACTIVE DYES

pH	6.5 - 8.5
HPLC PURITY (λ 254 nm)	≥ 94%
ION CONTENT (IN PPM)	
CHLORIDE < 500	MAGNESIUM < 250
SULFATE < 500	IRON < 50
CALCIUM < 250	

IN PRESS-CAKE BASE FORM

SOLID CONTENT	40-65 %
HPLC PURITY	≥ 97%

ORANGE 12
(CI No. O 12)**AS LIQUID REACTIVE DYES**

pH	6.5 - 8.5
SOLID CONTENT	20 - 25 %
HPLC PURITY (λ 254 nm)	≥ 94%
ION CONTENT (IN PPM)	
CHLORIDE < 100	MAGNESIUM < 50
SULFATE < 100	IRON < 10
CALCIUM < 50	

AS POWDER REACTIVE DYES

pH	6.5 - 8.5
HPLC PURITY (λ 254 nm)	≥ 94%
ION CONTENT (IN PPM)	
CHLORIDE < 500	MAGNESIUM < 250
SULFATE < 500	IRON < 50
CALCIUM < 250	

IN PRESS-CAKE FORM

SOLID CONTENT	40-65 %
HPLC PURITY	≥ 94%

ORANGE 13
(CI No. O 13)**AS LIQUID REACTIVE DYES**

pH	6.5 - 8.5
SOLID CONTENT	20 - 25 %
HPLC PURITY (λ 254 nm)	≥ 94%
ION CONTENT (IN PPM)	
CHLORIDE < 100	MAGNESIUM < 50
SULFATE < 100	IRON < 10
CALCIUM < 50	

AS POWDER REACTIVE DYES

pH	6.5 - 8.5
HPLC PURITY (λ 254 nm)	≥ 94%
ION CONTENT (IN PPM)	
CHLORIDE < 500	MAGNESIUM < 200
SULFATE < 500	IRON < 50
CALCIUM < 250	

IN PRESS-CAKE FORM

SOLID CONTENT	40-65 %
HPLC PURITY	≥ 97%

RED 245
(CI No. R 245)**AS LIQUID REACTIVE DYES**

pH	6.5 - 8.5
SOLID CONTENT	20 - 25 %
HPLC PURITY (λ 254 nm)	≥ 94%
ION CONTENT (IN PPM)	
CHLORIDE < 100	MAGNESIUM < 50
SULFATE < 100	IRON < 10
CALCIUM < 50	

AS POWDER REACTIVE DYES

pH	6.5 - 8.5
HPLC PURITY (λ 254 nm)	≥ 94%
ION CONTENT (IN PPM)	
CHLORIDE < 500	MAGNESIUM < 250
SULFATE < 500	IRON < 50
CALCIUM < 250	

IN PRESS-CAKE BASE FORM

SOLID CONTENT	40-65 %
HPLC PURITY	≥ 97%

RED 218
(CI No. R 218)**AS LIQUID REACTIVE DYES**

pH	6.5 - 8.5
SOLID CONTENT	18 - 22 %
HPLC PURITY (λ 254 nm)	≥ 94%
ION CONTENT (IN PPM)	
CHLORIDE < 100	MAGNESIUM < 50
SULFATE < 100	IRON < 10
CALCIUM < 50	

AS POWDER REACTIVE DYES

pH	6.5 - 8.5
HPLC PURITY (λ 254 nm)	≥ 94%
ION CONTENT (IN PPM)	
CHLORIDE < 500	MAGNESIUM < 250
SULFATE < 500	IRON < 50
CALCIUM < 250	

IN PRESS-CAKE BASE FORM

SOLID CONTENT	40-65 %
HPLC PURITY	≥ 97%

RED 24.1
(CI No. R 24.1)**AS LIQUID REACTIVE DYES**

pH	6.5 - 8.5
SOLID CONTENT	18 - 23 %
HPLC PURITY (λ 254 nm)	≥ 94%
ION CONTENT (IN PPM)	
CHLORIDE < 100	MAGNESIUM < 50
SULFATE < 100	IRON < 10
CALCIUM < 50	

AS POWDER REACTIVE DYES

pH	6.5 - 8.5
HPLC PURITY (λ 254 nm)	≥ 94%
ION CONTENT (IN PPM)	
CHLORIDE < 500	MAGNESIUM < 250
SULFATE < 500	IRON < 50
CALCIUM < 250	

IN PRESS-CAKE BASE FORM

SOLID CONTENT	40-65 %
HPLC PURITY	≥ 97%

BLACK 39
(CI No. Bk 39)**AS LIQUID REACTIVE DYES**

pH	6.5 - 8.5
SOLID CONTENT	25 %
HPLC PURITY (λ 254 nm)	≥ 94%
ION CONTENT (IN PPM)	
CHLORIDE < 100	MAGNESIUM < 50
SULFATE < 100	IRON < 10
CALCIUM < 50	

AS POWDER REACTIVE DYES

pH	6.5 - 8.5
HPLC PURITY (λ 254 nm)	≥ 94%
ION CONTENT (IN PPM)	
CHLORIDE < 500	MAGNESIUM < 250
SULFATE < 500	IRON < 50
CALCIUM < 250	

IN PRESS-CAKE FORM

SOLID CONTENT	40- 65 %
HPLC PURITY	≥ 94%

BLUE 49
(CI No. B 49)**AS LIQUID REACTIVE DYES**

pH	6.5 - 8.5
SOLID CONTENT	16 - 23 %
HPLC PURITY (λ 254 nm)	≥ 90%
ION CONTENT (IN PPM)	
CHLORIDE < 100	MAGNESIUM < 50
SULFATE < 100	IRON < 10
CALCIUM < 100	

AS POWDER REACTIVE DYES

pH	6.5 - 8.5
HPLC PURITY (λ 254 nm)	≥ 90%
ION CONTENT (IN PPM)	
CHLORIDE < 500	MAGNESIUM < 250
SULFATE < 500	IRON < 10
CALCIUM < 250	

IN PRESS-CAKE FORM

SOLID CONTENT	40-65 %
HPLC PURITY	≥ 96%

BLUE 72
(CI No. B 72)**AS LIQUID REACTIVE DYES**

pH	6.5 - 8.5
SOLID CONTENT	18 - 23 %
HPLC PURITY	N/A
ION CONTENT (IN PPM)	
CHLORIDE < 100	MAGNESIUM < 50
SULFATE < 100	IRON < 15
CALCIUM < 50	ALUMINIUM < 1

AS POWDER REACTIVE DYES

pH	6.5-8.5
HPLC PURITY	N/A
ION CONTENT (IN PPM)	
CHLORIDE < 500	MAGNESIUM < 250
SULFATE < 500	IRON < 50
CALCIUM < 250	

NOTE: The above information has been compiled very carefully, are true and correct at the time of issuance and are subject to change without prior notice. Since the conditions of use are beyond our control, no liability can be accepted on the basis of the recommendations or suggestions provided.





PT BIPORIN AGUNG

FULLY INTEGRATED COLORANTS COMPANY

THE CITY TOWER (TCT) 29th Floor, Unit 29-01
Jl. M. H. Thamrin No. 81, Jakarta 10310, INDONESIA
P: +62-21-3199-6222 • **F:** +62-21-3199-6288
E: biporin@biporin.com
www.biporin.com



GOTS
VERSION 6.0



Ø ZDHC

PT BIPORIN AGUNG has the production capability for tailor-made inks and dyes according to individual specifications of production needs & quality.



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