



CHEMANTRENE DYES

FOR DYEING



ACHITEX MINERVA



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Achitex Minerva Group has a range of dyestuffs, in liquid and powder form, nominated Chemantrene, suitable for dyeing cellulosic fibres.

They are high fastness water-insoluble dyes which by alkaline reduction (caustic soda - sodium hydrosulfite) become soluble fiber derivatives, getting back to the insoluble form after the oxidation phase.

Chemantrene dyes are classified according to the following methods:

- IN: dyeing temperature 60-80°C, with high quantity of alkali
- IW: dyeing temperature 45-50°C, with high quantity of alkali and salt
- IS: dyeing temperature 75-80°C, special method for black shades

In the dyeing process it is important to use purified water, otherwise it is advisable to introduce a sequestering agent, such as PLEXMET SR, to prevent precipitation.

For a better penetration of the dye, is suggested to add in the dyeing bath, a wetting agent as ACHITINA IMC while, to improve the dyeing, it is advisable to use a levelling agent, as ACHITEGAL DRT. At the end, it is recommended to remove excessive dye by squeezing, suction or rinsing. The following oxidation is by atmospheric oxygen, running water and hydrogen peroxide. To obtain the final shade, is required a soaping treatment, to be performed with the product PLEXEMT RE N at boiling.







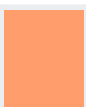









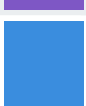









ADVANTAGES

- ✓ High degree of dispersion
- ✓ High colour yield
- ✓ Very stable dispersion
- ✓ High degree of filtration
- ✓ High fastness to light
- ✓ High fastness to wash
- ✓ Resistance to post bleaching baths



CHEMANTRENE dyestuffs

			Leuco	Dyeing method	Soaping	Max temperature °C	Light Xenotest 1/2 - 1/3 - 1/1	Caustic soda boiling	Bleaching		Mercerizing	Peroxide washing	Dry cleaning	Perspiration Alkaline - Acid	Hot ironing		Water Spotting	
									Peroxide	Hypochlorite					Immediately	After 4 hours	Immediately	Dry
		YELLOW GC SD 0,5% - 1,5%	V	IN (CW)	G	115	4 3/4 2/3	4	5	5	4	5	5	5 5	5	5	4/5	5
		YELLOW 3RT SD 0,5% - 1,5%	R/BR	IW (CN)	C	98	7 6/7 5/6	4/5	4	4/5	5	5	4/5	4-5 4-5	3/4	4/5	4/5	5
		ORANGE RRTS SD 0,5% - 1,5%	R/V	IN (IW)	C	115	5/6 5 4	4/5	5	4/5	4/5	4/5	4	5 5	3	5	4/5	5
		BRILL ORANGE GR SD 0,5% - 1,5%	BR	IN	C	90	6/7 6 5	4/5	5	5	5	5	4/5	5 5	4	4/5	5	5
		BRILL PINK R SD 0,5% - 1,5%	Y	IS	Y	90	6 5/6 4	4/5	5	5	5	5	4/5	5 4-5	4/5	5	5	5
		RED FBB SD 0,5% - 1,5%	BR	IW (IN)	Y	90	7 6/7 5	4/5	4/5	4/5	4/5	5	5	4G 4G	4	5	4	5
		RUBINE R SD 0,5% - 1,5%	G/B	IN (IW)	B	90	6 5/6 4	4/5	5	4/5	5	5	4/5	4-5 4-5	4/5	5	5	5
		BRILL VIOLET 3B SD 1% - 3%	V/B	IN	R	90	6 5 4	4/5	5	5	5	4/5	5	4-5 4-5R	3	4	3	5
		BLUE CLF SD 1% - 3%	O/BR	IW (IN)	C	90	7 5/6 4/5	4/5	4/5	4/5	4/5	4/5	4/5	5 5	4	4/5	4/5	5
		BLUE BC SD 1% - 3%	B	IN	R	115	7/8 7 7	4/5	4/5	3	4	4/5	4/5	5 5	4	4/5	4/5	5
		BLUE RS SD 1% - 3%	B	IN	R	115	7/8 7 7	4	4/5	2	3	4/5	4/5	5 5	4	4/5	4	5
		NAVY BLUE G SD 1% - 3%	B	IN (IW)	R	98	7 6 5	4	4	4/5	4/5	4/5	4/5	5 5	3/4	4	4	5

B: Blue

BK: Black

BR: Brown

G: Green

O: Olive

OR: Orange













R: Red

V: Violet

Y: Yellow

C: Clear

CHEMANTRENE dyestuffs

			Leuco	Dyeing method	Soaping	Max temperature °C	Light Xenotest 1/2 - 1/3 - 1/1	Caustic soda boiling	Bleaching		Mercerizing	Peroxide washing	Dry cleaning	Perspiration Alkaline - Acid	Hot ironing		Water Spotting	
									Peroxide	Hypochlorite					Immediately	After 4 hours	Immediately	Dry
		NAVY BLUE CN/B SD 1% - 3%	V	IN	R	115	7/8 6/7 6	4/5	4/5	4	4/5	4/5	4/5	5 4-5	3	3/4	4	4/5
		DARK BLUE BOA SD 1% - 3%	V	IN (IW)	R	115	7/8 6/7 5	4/5	4/5	4/5	4/5	4/5	4	4-5 4-5	3	4	3/4	4/5
		BRILL GREEN FFB SD 1% - 3%	B	IN (IW)	C	115	7/8 7 6	4/5	4/5	4/5	4/5	4/5	5	5 4-5	3	4/5	4	5
		OLIVE GREEN B SD 1% - 3%	BK/B	IN (IW)	G	115	8 7/8 7	4	4/5	4	4/5	4/5	4/5	4-5 4-5	4	5	4/5	5
		OLIVE R SD 1% - 3%	R/BR	IW (IN)	G	85	7 6/7 6	4	4/5	4/5	3/4	4/5	5	4-5 5	2/3	4	3/4	5
		OLIVE T SD 1% - 3%	G	IN	C	85	7 6/7 6	4/5	4	4	4/5	4/5	5	4-5 4-5	4	5	5	5
		BROWN R SD 1% - 3%	R/BR	IW (IN)	R	98	7 6/7 6	4/5	4/5	5	4/5	4/5	5	5 5	4/5	5	4/5	5
		BROWN BR SD 1% - 3%	OR/ BR	IW	C	98	7 6/7 6	5	4/5	4/5	4/5	4/5	5	4-5 4-5	4/5	5	4	5
		GREY CL/N SD 1% - 3%	BR	IN	G	98	7 6/7 6	4/5	4/5	4/5	4/5	4/5	5	5 4-5	4	5	4/5	5
		BLACK RB SD 5% - 10%	B	IS	R	115	7/8 7 7	4/5	4/5	4/5	4/5	4/5	4	5 5	4/5	5	4	4/5
		BLACK R SD 5% - 10%	V	IS	G	115	7/8 7/8 6/7	4/5	4/5	4/5	4/5	4/5	4/5	4-5 4-5	3/4	4/5	4	4/5
		BLACK BB SD 5% - 10%	B/V	IS	C	115	8 7 0	4/5	4/5	4/5	4/5	4/5	5	5 5	4/5	5	4/5	5

Note: data contained in this document are based on our current knowledge and experience, they are not to be considered a guarantee, considering the numerous factors that can influence the process and application of our product. This data doesn't relieve users from carrying out their own preventive tests. The colours shown in this chart are purely indicative.



IN METHOD

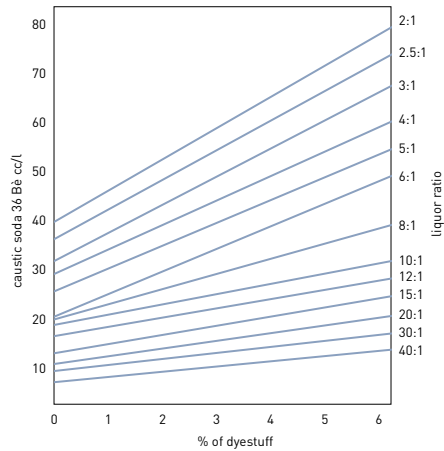


Dyeing temperature
60°-80°C

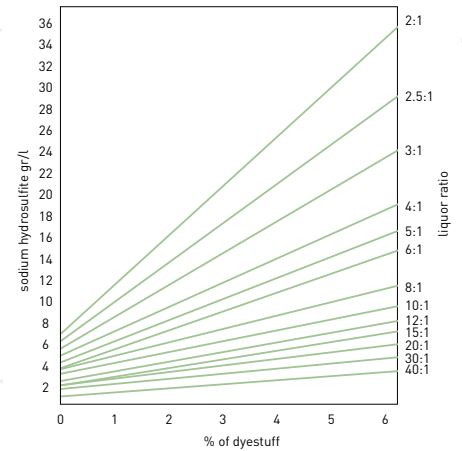


Dyeing time
30-60 min.

Quantity of caustic soda 36 Bè



Quantity of sodium hydrosulphite



IW METHOD

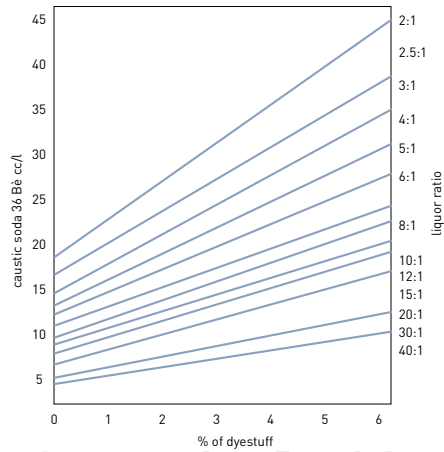


Dyeing temperature
45°-50°C

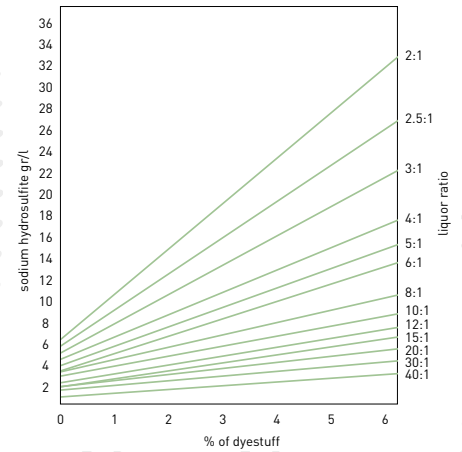


Dyeing time
45-60 min.

Quantity of caustic soda 36 Bè



Quantity of sodium hydrosulphite



Calculation table
for sodium sulphate quantity

METHOD	LIQUOR RATIO	PALE SHADES UNTIL 1%	MEDIUM SHADES 1,0% - 2,0%	DARK SHADES 2,0% - 4,0%
IW	20:1	10-15	15-20	20-25
	10:1	8-10	10-15	15-20
	5:1	8-10	10-15	10-15

IS METHOD

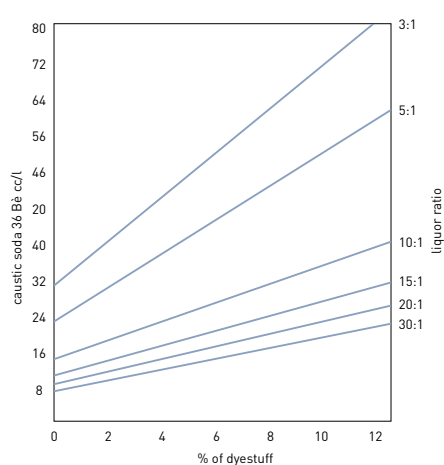


Dyeing temperature
75°-80°C

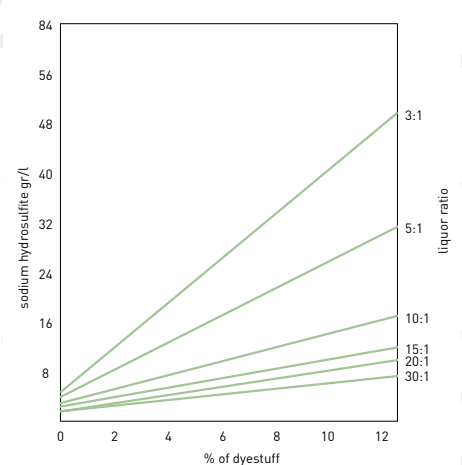


Dyeing time
50-60 min.

Quantity of caustic soda 36 Bè



Quantity of sodium hydrosulphite





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UNI EN ISO 9001:2015
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CERTIFIED MANAGEMENT
SYSTEMS