

Product Information Process Auxiliaries

Sera[®] White C-EBN

Optical brightening agent for the exhaust whitening of cellulose, polyamide, wool, silk and their blends

Function	Fluorescent whitening agent with neutral to bluish white shade	
Properties	<ul style="list-style-type: none"> - high affinity whitener, perfectly suited for exhaust whitening processes - high degree of exhaustion, accordingly low waste water pollution - stable in exhaust peroxide bleach, suitable for one step bleach-whitening of cellulose - stable in reductive bleach, suitable for bleach-whitening of polyamide, wool and silk - excellent build-up resulting in outstanding high and brilliant white effects - excellent wash fastness even at high washing temperatures - suitable in print pastes for white discharge printing - liquid formulation, easily miscible with water 	
Chemical Characteristics	Stilben-triazin derivative	
Technical Data	Appearance:	clear, light to dark yellow liquid
	Density (20°C):	1.2 g/cm ³
	Ionicity:	anionic
	Dilution procedure:	easily soluble in warm and cold water
	Shelf life:	6 months in closed original containers
	Stability:	hard water > 20°GH pH 7 - 12 (up to 10 g/l NaOH 100%) very good stability to electrolytes not stable in chlorite bleach

Application

Sera White C-EBN preferably is applied in exhaust process and can be added to the liquor at the start of the whitening cycle.

Recommended amount - cotton

0.3 - 0.8 % Sera White C-EBN

Whitening of cellulose can be combined with peroxide or reductive bleach or made in extra bath after bleaching. Addition of electrolytes is recommended for regenerated cellulose.

Recommended amount - polyamide

0.5 - 3.0 % Sera White C-EBN

Whitening of polyamide can be combined with reductive bleach or made in extra bath.

Dissolving/diluting

Miscible with cold or warm water in all proportions. Solutions should be protected from light.

Suggested recipes/methods

Whitening of cellulose in exhaust peroxide bleach.

0.3 - 0.8 %	Sera White C-EBN
0.0 - 3.0 g/l	Glauber's salt, anhyd.
4.0 - 12 ml/l	hydrogen peroxide 35%
1.0 - 2.5 g/l	Sera Fil FFB
0.5 - 2.0 g/l	caustic soda 100%

Liquor ratio: 10:1 - 20:1

Temperature/time: 90 - 120°C/60 - 15 min

After treatment: rinse hot and cold, neutralize to pH 6 - 7

Whitening of polyamide in exhaust process

0.5 - 3.0 %	Sera White C-EBN
0.0 - 3.0 g/l	sodium dithionite, stabilized
0.0 - 2.0 g/l	Sera Quest M-PP
1.0 - 3.0 g/l	Sera Wash M-RK
	pH about 7

Liquor ratio: 10:1 - 20:1

Temperature/time: 90 - 120°C/60 - 20 min

After treatment: rinse warm and cold, neutralize residual dithionite with app. 0.5 ml/l H₂O₂ 35%



			CEL	PA	WO, S
Light		ISO 105-B02	3 - 4	3	2
Washing	40°C	ISO 105-C06/A1S	5	5	5
	60°C	ISO 105-C06/C1S	5	5	-
	90°C	ISO 105-C06/E2S	4 - 5	4 - 5	-
Chlorine bleach	mild	ISO 105-N01	4 - 5	-	-
	severe		4	-	-
Chlorite bleach	mild	ISO 105-N03	1	1	-
Perspiration	alkaline	ISO 105-E04	5	4 - 5	4
	acid		5	4 - 5	4
Dry heat	30 s at 180°C	ISO 105-P02	5	5	-
Nitrogen oxides	1 cycle	ISO 105-G04	5	5	-
	2 cycles		4 - 5	4 - 5	-

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