Product Information Process Auxiliaries

Sera® White C-EBB

Optical brightening agent for the exhaust whitening of cellulose and their blends

Function	Fluorescent whitening agent with blue white shade (shaded)	
Properties	- 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 - excellent build-up resulting in outstanding high and brilliant white effects with distinct blue shade - excellent wash fastness even at high washing temperatures - easy white matching possible by mixing with Sera White C-EBB - liquid formulation, easily miscible with water	
Chemical Characteristics	Stilben-triazin derivative	
Technical Data	Appearance:	blue to blue-violet liquid
	Density (20 °C):	1.2 g/cm³
	Ionicity:	anionic
	Dilution procedure:	easily soluble in warm and cold water
	Shelf life:	6 months in closed original containers
	Stability:	hard water up to 20 °GH pH 7 - 12 (up to 8.0 g/l NaOH 100%) very good stability to electrolytes not stable in chlorite bleach shading component is not stable under reductive bleaching conditions

Application

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

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

Recommended amount

0.2 - 0.8	%	Sera White C-EBB

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.

0.2 - 0.8	%	Sera White C-EBB
0.0 - 3.0	g/l	Glauber's salt, anhyd.
4.0 - 12.0	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

Especially in high concentrations Sera White C-EBB presents clearly blue shaded white effects. Less pronounced shading, e.g. in case of white matching, can be obtained by combined application with the neutral Sera White C-EBN. In order to avoid oversaturation a maximum concentration of 0.8% whitener is recommended.

			CEL
Light		ISO 105-B02	3 - 4
Washing	40°C	ISO 105-C06/A1S	4 - 5
	60°C	ISO 105-C06/C1S	4
	90°C	ISO 105-C06/E2S	3 - 4
Chlorine bleach		ISO 105-N01	3 - 4
Chlorite bleach	mild	ISO 105-N03	1
Dry heat	30 s at 180°C	ISO 105-P02	5
Nitrogen oxides		ISO 105-G04	4 - 5

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