

Characteristics

C. I.	Fluorescent Brightener 140
C. I. No.	551100
CAS No.	91-44-1
Chemical class	Coumarine derivate

Properties

Commercial form	powder
Solubility	very low in water/very good in ethanol

Efficiency on various types of materials

Textile industry

Cotton	
Flax	
Viscose	
Polyamide	
Wool	
Natural silk	

Paper industry

In mass	
In surface	
In coating	

Detergents industry

Cellulosic fibres	unsuitable
Polyamide	suitable
Wool	suitable
Natural silk	suitable
Acetate	suitable
Triacetate	suitable

Basic application characteristic

Shade of white	red
Ionogenity	non-ionic
Afinity	high

Stability

Hard water	stable
pH	6
Oxidizing enviroment	stable
Reducing enviroment	stable
Sodium hypochlorite	unstable
Sodium chlorite	unstable

Fastness	cotton	polyamide	wool
standard depth			
Light Xenotest			
Washing 40°C	3	5	4

Washing 60°C	2	5
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Application possibilities

Application in textile industry 1 ●

Application conditions in textile industry				
	Temperature °C	Time min	NaCl, Na ₂ SO ₄ g/l	pH
Cellulosic fibres				
Rylux BS 150	20 - 120	15 - 30	3 - 5	6 - 12
Rylux BA liq.	20 - 120	15 - 30	3 - 5	6 - 12
Rylux PRS, PRS liq.	20 - 120	15 - 30	3 - 5	5 - 12
Rylux BSU	50 - 120	15 - 30	5 - 20	2 - 12
Rylux BNU liq.	50 - 120	15 - 30	5 - 20	2 - 12
Polyamide				
Rylux BS 150	60 - 98	30 - 60		4,5 - 6
Rylux BA liq.	60 - 98	30 - 60		5 - 6
Rylux PRS, PRS liq.	60 - 98	30 - 60		4,5 - 6
Wool and natural silk				
Rylux BS 150	40 - 60	60 - 120		4,5 - 5,5
Rylux BA liq.	40 - 60	60 - 120		4,5 - 5,5
Rylux PRS, PRS liq.	40 - 60	60 - 120		4,5 - 5,5

Application in textile industry 2 ●

Dossage in textile industry				
Exhaustion method - %				
	cotton, flax	viscose	polyamide	wool, natural silk
Rylux BS 150	0,1 - 0,6	0,2 - 1,0	0,4 - 1,5	0,4 - 1,2
Rylux BA liq.	0,2 - 0,8	0,3 - 1,6	0,4 - 3,0	0,4 - 3,0
Rylux PRS	0,1 - 0,4	0,1 - 0,8	0,2 - 1,0	0,3 - 1,0
Rylux PRS liq.	0,2 - 0,8	0,2 - 1,6	0,4 - 2,0	0,6 - 2,0
Rylux BSU	0,5 - 1,5			
Rylux BNU liq.	1,5 - 4,5			
% of material weight				
Padding method - g/l				
	cotton, flax, viscose	polyamide, wool, natural silk		
Rylux BS 150	1,0 - 4,0	-		
Rylux BA liq.	-	-		
Rylux PRS	0,5 - 3,0	3,0 - 10,0		
Rylux PRS liq.	1,0 - 6,0	6,0 - 20,0		
Rylux BSU	2,0 - 4,5	-		
Rylux BNU liq.	3,0 - 12,0	-		

Application in paper industry ●

Dossage in paper industry			
	In mass	In surface	In coating
	%	g/l	g/l
Rylux BS 150	0,02 - 0,3	0,2 - 4,0	0,5 - 5,0
Rylux BA liq.	0,10 - 0,8	0,4 - 7,0	0,8 - 8,0
Rylux PRS	0,02 - 0,3	0,1 - 0,3	0,3 - 4,0
Rylux PRS liq.	0,10 - 0,6	0,2 - 6,0	0,6 - 8,0
Rylux BSU	-	0,3 - 5,0	0,5 - 8,0
Rylux BNU liq.	-	1,0 - 15,0	1,5 - 15,0
Rylux SDE liq.	0,10 - 1,2	1,0 - 12,0	0,8 - 1,8
% related to the production unit			

Application in detergents ●

Dossage in detergents	
	%
Rylux DK	0,10 - 0,20
Rylux DSK	0,05 - 0,15
Rylux D-43 slurry	0,10 - 0,20
Rylux DP 130	0,10 - 0,30
Rylux VPA-T	0,05 - 0,10
% related to weight of detergent	

Testing methods**Fastness standards**

Light Xenotest	ISO 105-B02-1994
Washing	ISO 105-C01-1989