

## RYLUX VPA-T

### Characteristic

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 environment	stable
Sodium hypochlorite	unstable
Sodium chlorite	unstable

Fastness	cotton	polyamide	wool
<i>standard depth</i>			
Light Xenotest			
Washing 40°C	3	5	4
Washing 60°C	2	5	

### Application possibilities

Application in textile industry 1 ●

Application conditions in textile industry				
	Temperature °C	Time min	NaCl, Na <sub>2</sub> SO <sub>4</sub> g/l	pH
<b>Cellulosic fibres</b>				
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
<b>Polyamide</b>				
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
<b>Wool and natural silk</b>				
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**

	<b>In mass</b>	<b>In surface</b>	<b>In coating</b>
	<b>%</b>	<b>g/l</b>	<b>g/l</b>
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**

	<b>%</b>
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