

### Characteristics

|                |                                          |
|----------------|------------------------------------------|
| C. I.          | Fluorescent Brightener 71                |
| C. I. No.      | 40625                                    |
| CAS No.        | 16090-02-1                               |
| Chemical class | Diaminostilbenedisulphonic acid derivate |

### Properties

|                 |                       |
|-----------------|-----------------------|
| Commercial form | powder                |
| Solubility      | 5g/l in water at 98°C |

### 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 | suitable   |
| Polyamide         | unsuitable |
| Wool              | unsuitable |
| Natural silk      | unsuitable |
| Acetate           | unsuitable |
| Triacetate        | unsuitable |

### Basic application characteristic

|                |               |
|----------------|---------------|
| Shade of white | bluish violet |
| Ionogenity     | anionaktiv    |
| 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 | 4      | 5         | 5    |
| Washing 40°C   |        |           |      |

|              |  |  |
|--------------|--|--|
| Washing 60°C |  |  |
|--------------|--|--|

## Application possibilities

### Application in textile industry 1 ●

| Application conditions in textile industry |                |          |                                              |           |
|--------------------------------------------|----------------|----------|----------------------------------------------|-----------|
|                                            | Temperature °C | Time min | NaCl,<br>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        |            |            |            |
|----------------------------------|------------|------------|------------|
|                                  | 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 |