

Illustration on wool / on polyamide



### Characteristics

|                |                      |
|----------------|----------------------|
| C. I.          | Acid Black 194       |
| CAS No.        | 57693-14-8           |
| Chemical class | Metal complex azodye |

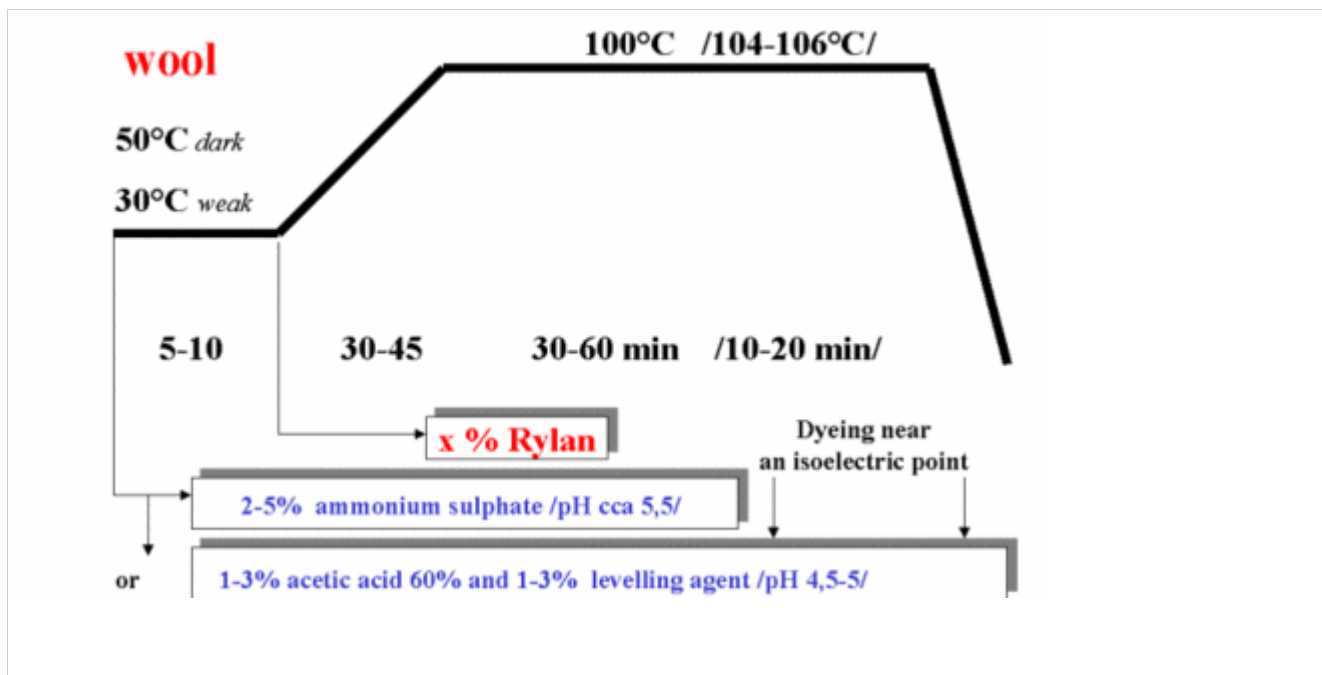
### Properties

|                          |    |
|--------------------------|----|
| Solubility (g/l at 25°C) | 70 |
|--------------------------|----|

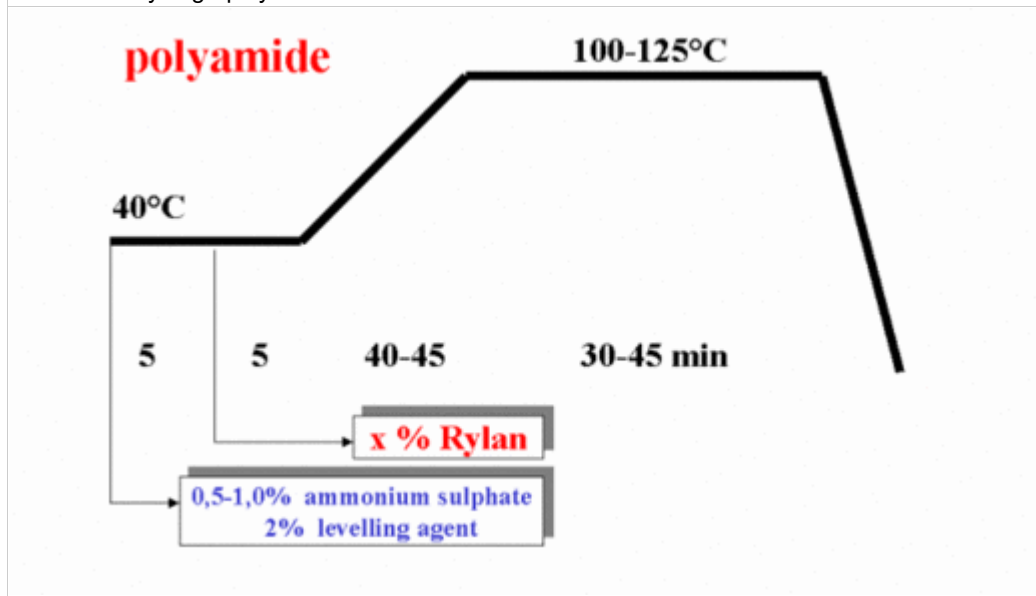
| Fastness                   | wool      |      |     |     |     |     | polyamide |     |
|----------------------------|-----------|------|-----|-----|-----|-----|-----------|-----|
| standard depth             | 1/25      | 1/12 | 1/6 | 1/3 | 1/1 | 2/1 | 1/1       | 2/1 |
| Light Xenotest             |           |      |     |     | 7-8 |     | 6-7       | 7-8 |
|                            | wool      |      |     |     |     |     |           |     |
| standard depth             | 1/1       |      |     |     |     |     |           |     |
| Water                      | 4-5       |      |     | 4-5 |     |     | 4-5       |     |
| Crabbing                   | 4-5       |      |     | 3   |     |     | 4-5       |     |
| Washing 40°C               | 4         |      |     | 4-5 |     |     | 4-5       |     |
| Washing 60°C               | 4         |      |     | 3-4 |     |     | 4-5       |     |
| Perspiration acid          | 4-5       |      |     | 4-5 |     |     | 4-5       |     |
| Perspiration alkaline      | 4-5       |      |     | 4   |     |     | 4-5       |     |
| Rubbing dry                |           |      |     |     |     |     | 4         |     |
| Hot pressing wet after 4 h | 4-5       |      |     |     |     |     | 4-5       |     |
| Milling acid               | 4         |      |     | 4-5 |     |     | 4-5       |     |
| Milling alkaline           | 4         |      |     | 3   |     |     | 4-5       |     |
| Crossdyeing neutral        | 4         |      |     | 1-2 |     |     | 4         |     |
| Potting                    | 4-5       |      |     | 1   |     |     | 4         |     |
| Decatizing                 | 4         |      |     |     |     |     |           |     |
| Dry cleaning               | 4         |      |     |     |     |     |           |     |
|                            | polyamide |      |     |     |     |     |           |     |
| standard depth             | 1/1       |      |     |     |     |     |           |     |
| Water                      | 4-5       |      |     | 4   |     |     | 4-5       |     |
| Sea water                  | 4-5       |      |     | 4-5 |     |     | 4-5       |     |
| Washing 40°C               | 4         |      |     | 4-5 |     |     | 4-5       |     |
| Washing 60°C               | 4         |      |     | 3   |     |     | 4-5       |     |
| Perspiration acid          | 4-5       |      |     | 4   |     |     | 4-5       |     |
| Perspiration alkaline      | 4-5       |      |     | 4   |     |     | 4-5       |     |
| Rubbing dry                |           |      |     |     |     |     | 4-5       |     |
| Hot pressing wet after 4 h | 4         |      |     | 4-5 |     |     | 4-5       |     |
| Swimming bath water        | 4         |      |     |     |     |     |           |     |
| Dry cleaning               | 4-5       |      |     |     |     |     |           |     |
| Nitrogen oxides            | 4         |      |     |     |     |     |           |     |
| Dry heat 150°C             | 4-5       |      |     | 4-5 |     |     | 4-5       |     |

### Application possibilities

Exhaustion dyeing - wool ●



Exhaustion dyeing - polyamide ●



● suitable ● partially suitable ○ unsuitable

## Testing methods

|                                                             |                                                                                             |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Light Xenotest                                              | ISO 105-B02-1994                                                                            |
| Water                                                       | ISO 105-E01-1994                                                                            |
| Washing 40°C                                                | ISO 105-C01-1989                                                                            |
| Washing 60°C                                                | ISO 105-C03-1989                                                                            |
| Sea water                                                   | ISO 105-E02-1994                                                                            |
| Swimming bath water                                         | ISO 105-E03-1994                                                                            |
| Perspiration                                                | ISO 105-E04-1994                                                                            |
| Rubbing                                                     | ISO 105-X12-1987                                                                            |
| Hot pressing                                                | ISO 105-X11-1994                                                                            |
| Milling acid                                                | ISO 105-E14-1994                                                                            |
| Milling alkaline                                            | ISO 105-E12-1989                                                                            |
| Potting                                                     | ISO 105-E09-1989                                                                            |
| Crabbing                                                    | ISO 105-E08-1994                                                                            |
| Crossdyeing neutral                                         | ISO 105-X07-1994                                                                            |
| Decatizing                                                  | ISO 105-E10-1994                                                                            |
| Dry cleaning                                                | ISO 105-D01-1993                                                                            |
| Nitrogen oxides                                             | ISO 105-G01-1993                                                                            |
| Dry heat                                                    | ISO 105-P01-1993                                                                            |
| <i>The fastness figures in the tables mean:</i>             |                                                                                             |
| <i>fastness to light</i>                                    | <i>other fastness properties</i>                                                            |
| 1 – very poor                                               | 1 – poor                                                                                    |
| 2 – poor                                                    | 2 – moderate                                                                                |
| 3 – moderate                                                | 3 – fairly good                                                                             |
| 4 – fairly good                                             | 4 – good                                                                                    |
| 5 – good                                                    | 5 – very good                                                                               |
| 6 – very good                                               |                                                                                             |
| 7 – excellent                                               |                                                                                             |
| 8 – unsurpassed                                             |                                                                                             |
| <i>The letters indicate the following changes in shade:</i> |                                                                                             |
| R - redder                                                  | D - duller                                                                                  |
| Bl - bluer                                                  | Br - brighter                                                                               |
| Y - yellower                                                | S - stronger                                                                                |
| G - greener                                                 | W - weaker                                                                                  |
| <i>The numbers at individual dye fastness data mean:</i>    |                                                                                             |
| First number                                                | - change in shade                                                                           |
| Second number                                               | - staining on the undyed adjacent fabric which is of the same material as the tested sample |
| Third number                                                | - staining on the undyed adjacent fabric                                                    |