



**chimicatessile**

cromatos group



COLORANTI PER FIBRE PROTEICHE  
*WOOL DYES*

**CROMACEN**

## COLORANTI CROMACEN

La serie **Cromacen** è costituita da coloranti di buona affinità e potere migratorio buono. Le solidità alla luce sono buone e le solidità ai trattamenti a umido sono discrete. I coloranti Comacsen sono largamente utilizzati nella tintura in pezza.

| CROMACEN   |     | % Dyeing | Solubility at (g/l a 80 °C) | Light             | Water         | Washing at 40 °C | Dry Cleaning  | Acid Perspiration | Perspiration Alkaline | Decatizing | Rubbing Dry | Hot pressing Imm - after 4 hours | Milling Alkaline | Milling Acetic Acid |
|------------|-----|----------|-----------------------------|-------------------|---------------|------------------|---------------|-------------------|-----------------------|------------|-------------|----------------------------------|------------------|---------------------|
|            |     |          |                             | 1/6<br>1/1<br>2/1 | F<br>WO<br>CO | F<br>WO<br>CO    | F<br>WO<br>CO | F<br>WO<br>CO     | F<br>WO<br>CO         |            |             |                                  | F<br>WO<br>CO    | F<br>WO<br>CO       |
| Yellow GR  | 1   | 40       | 5                           | 4                 | 3-4           | 4                | 4             | 4                 | 4                     | 4          | 4-5         | 4                                | 3-4              | 4                   |
|            |     |          | 5-6                         | 3-4               | 5             |                  | 3             | 2-3               |                       |            | 4           | 2-3                              |                  |                     |
|            |     |          | 6                           | 4-5               | 5             |                  | 4             | 3-4               |                       |            | 4-5         | 4-5                              |                  |                     |
| Yellow 4R  | 1   | 60       | 5                           | 4-5               | 4             | 5                | 4-5           | 4-5               | 4-5                   | 4-5        | 5           | 4-5                              | 4-5              | 4-5                 |
|            |     |          | 6                           | 3-4               | 4-5           |                  | 4             | 3                 |                       |            | 4-5         | 4-5                              |                  |                     |
|            |     |          | 6-7                         | 4                 | 3-4           |                  | 4-5           | 3                 |                       |            | 4           | 4-5                              |                  |                     |
| Red EBL    | 1   | 50       | 4                           | 5                 | 4-5           | 4                | 5             | 4-5               | 4-5                   | 5          | 4-5         | 3                                | 4                | 4                   |
|            |     |          | 5                           | 4                 | 5             |                  | 4             | 3                 |                       |            | 5           | 5                                |                  |                     |
|            |     |          | 5-6                         | 5                 | 5             |                  | 4-5           | 3-4               |                       |            | 5           | 5                                |                  |                     |
| Red EBG    | 1,5 | 45       | 5-6                         | 4                 | 3             | 4-5              | 4             | 4                 | 4                     | 4          | 4-5         | 4-5                              | 3                | 3                   |
|            |     |          | 6                           | 3-4               | 3-4           |                  | 3-4           | 3                 |                       |            | 3           | 3                                |                  |                     |
|            |     |          | 6-7                         | 4                 | 4             |                  | 4             | 3-4               |                       |            | 5           | 4-5                              |                  |                     |
| Red 2B     | 1   | 80       | 5-6                         | 4-5               | 4-5           | 5                | 4             | 4                 | 4                     | 4-5        | 5           | 3                                | 4-5              | 4                   |
|            |     |          | 6                           | 4                 | 4-5           |                  | 3             | 3                 |                       |            | 4           | 4                                |                  |                     |
|            |     |          | 6-7                         | 4-5               | 5             |                  | 3-4           | 3-4               |                       |            | 5           | 4-5                              |                  |                     |
| Red B      | 1,5 | 45       | 5-6                         | 4                 | 3             | 4-5              | 4             | 4                 | 4                     | 4          | 4-5         | 45-5                             | 3                | 3                   |
|            |     |          | 6                           | 3-4               | 3-4           |                  | 3-4           | 3                 |                       |            | 3           | 3                                |                  |                     |
|            |     |          | 6-7                         | 4                 | 4             |                  | 4             | 3-4               |                       |            | 5           | 4-5                              |                  |                     |
| Red 3GP    | 1   | 70       | 4-5                         | 4-5               | 3-4           | 4-5              | 4             | 4                 | 4                     | 4-5        | 4-5         | 2B                               | 3                | 3                   |
|            |     |          | 5                           | 3                 | 3-4           |                  | 2-3           | 2-3               |                       |            | 3           | 2                                |                  |                     |
|            |     |          | 6                           | 4                 | 4             |                  | 3-4           | 3-4               |                       |            | 4-5         | 3-4                              |                  |                     |
| Violet 3B  | 1   | 10       | 4                           | 3-4               | 2-3           | 4-5              | 4             | 4                 | 4                     | 4          | 2-3         | 4                                | 2-3              | 2-3                 |
|            |     |          | 4-5                         | 3                 | 3-4           |                  | 2-3           | 3                 |                       |            | 2           | 2                                |                  |                     |
|            |     |          | 5-6                         | 4                 | 4             |                  | 4             | 4                 |                       |            | 3-4         | 4-5                              |                  |                     |
| Violet E2R | 1   | 30       | 4                           | 4-5               | 4-5           | 4-5              | 4-5           | 4-5               | 4-5                   | 4          | 4-5         | 4                                | 4-5              | 4                   |
|            |     |          | 4-5                         | 4-5               | 5             |                  | 4-5           | 4-5               |                       |            | 5           | 4-5                              |                  |                     |
|            |     |          | 5                           | 5                 | 5             |                  | 4-5           | 4-5               |                       |            | 5           | 4-5                              |                  |                     |
| Blue EFGL  | 1   | 25       | 5                           | 4-5               | 3-4           | 4                | 4-5           | 4                 | 4                     | 4-5        | 5           | 3-4                              | 3-4              | 4                   |
|            |     |          | 5-6                         | 3-4               | 4-5           |                  | 3             | 2                 |                       |            | 2-3         | 3-4                              |                  |                     |
|            |     |          | 6                           | 4-5               | 4             |                  | 3-4           | 3                 |                       |            | 4           | 4-5                              |                  |                     |
| Blue GBN   | 1   | 40       | 3-4                         | 4                 | 4-5           | 4-5              | 4-5           | 4-5               | 4                     | 4-5        | 4-5         | 4                                | 4                | 4                   |
|            |     |          | 4-5                         | 3-4               | 4-5           |                  | 3-4           | 3                 |                       |            | 4           | 2-3                              |                  |                     |
|            |     |          | 5                           | 4-5               | 4             |                  | 4             | 3                 |                       |            | 4           | 4-5                              |                  |                     |
| Blue 4R    | 1   | 80       | 5-6                         | 4-5               | 4-5           | 5                | 4-5           | 4                 | 4                     | 4-5        | 4-5         | 3                                | 4-5              | 4-5                 |
|            |     |          | 6                           | 4                 | 4-5           |                  | 3-4           | 3                 |                       |            | 4           | 4-5                              |                  |                     |
|            |     |          | 6-7                         | 4-5               | 5             |                  | 4             | 3-4               |                       |            | 5           | 5                                |                  |                     |
| Blue A     | 1   | 25       | 4                           | 4                 | 3             | 4                | 4-5           | 3-4               | 3-4                   | 4-5        | 4           | 3R                               | 3                | 3                   |
|            |     |          | 5                           | 3-4               | 3             |                  | 2-3           | 2-3               |                       |            | 2           | 2                                |                  |                     |
|            |     |          | 5-6                         | 4                 | 3             |                  | 2-3           | 2-3               |                       |            | 3           | 4                                |                  |                     |
| Green G    | 1,5 | 40       | 5                           | 4                 | 4             | 4-5              | 4             | 4                 | 4                     | 4          | 4-5         | 2B                               | 3-4              | 3-4                 |
|            |     |          | 6                           | 4                 | 4-5           |                  | 4             | 3-4               |                       |            | 4           | 3-4                              |                  |                     |
|            |     |          | 6-7                         | 4-5               | 4-5           |                  | 4-5           | 3-4               |                       |            | 4           | 4                                |                  |                     |

## Metodo di tintura standard utilizzato

Partire con bagno a temperatura ambiente con:

**Acido Acetico:** 1,5/3% - pH ottimale 4,5-5,5  
**Solfato di Sodio:** 10%  
**Ugual H-CN:** 0,5-2%

Mantenere 10 minuti. Aggiungere il colorante alzare la temperatura con gradiente 1,5 °C per minuto fino alla temperatura di 98°C, e mantenerla per circa 60 minuti. Se nelle produzione di tinte intense i bagni di tintura presentano scarso esaurimento, si consiglia dopo raffreddamento a 85°C di aggiungere lentamente 1-2% di acido acetico o formico previamente diluito, riportare la temperatura a 98°C e mantenere per altri 15- 30 minuti. Infine raffreddare, scaricare e lavare.

## CROMACEN DYES

*Cromacen series is composed by dyes with good affinity and good migration power, light fastness is good and the other fastness are fair. Cromacen dyes are mainly used on fabric.*

| CROMACEN   |     | % Dyeing | Solubility at (g/l a 80 °C) | Light             | Water         | Washing at 40 °C | Dry Cleaning  | Acid Perspiration | Perspiration Alkaline | Decatizing | Rubbing Dry | Hot pressing Imm – after 4 hours | Milling Alkaline | Milling Acetic Acid |
|------------|-----|----------|-----------------------------|-------------------|---------------|------------------|---------------|-------------------|-----------------------|------------|-------------|----------------------------------|------------------|---------------------|
|            |     |          |                             | 1/6<br>1/1<br>2/1 | F<br>WO<br>CO | F<br>WO<br>CO    | F<br>WO<br>CO | F<br>WO<br>CO     | F<br>WO<br>CO         |            |             |                                  | F<br>WO<br>CO    | F<br>WO<br>CO       |
| Yellow GR  | 1   | 40       | 5                           | 4                 | 3-4           | 4                | 4             | 4                 | 4                     | 4          | 4-5         | 4                                | 3-4              | 4                   |
|            |     |          | 5-6                         | 3-4               | 5             |                  | 3             | 2-3               |                       |            | 4           | 2-3                              |                  |                     |
|            |     |          | 6                           | 4-5               | 5             |                  | 4             | 3-4               |                       |            | 4-5         | 4-5                              |                  |                     |
| Yellow 4R  | 1   | 60       | 5                           | 4-5               | 4             | 5                | 4-5           | 4-5               | 4-5                   | 4-5        | 5           | 4-5                              | 4-5              | 4-5                 |
|            |     |          | 6                           | 3-4               | 4-5           |                  | 4             | 3                 |                       |            | 4-5         | 4-5                              |                  |                     |
|            |     |          | 6-7                         | 4                 | 3-4           |                  | 4-5           | 3                 |                       |            | 4           | 4-5                              |                  |                     |
| Red EBL    | 1   | 50       | 4                           | 5                 | 4-5           | 4                | 5             | 4-5               | 4-5                   | 5          | 4-5         | 3                                | 4                | 4                   |
|            |     |          | 5                           | 4                 | 5             |                  | 4             | 3                 |                       |            | 5           | 5                                |                  |                     |
|            |     |          | 5-6                         | 5                 | 5             |                  | 4-5           | 3-4               |                       |            | 5           | 5                                |                  |                     |
| Red EBG    | 1,5 | 45       | 5-6                         | 4                 | 3             | 4-5              | 4             | 4                 | 4                     | 4          | 4-5         | 4-5                              | 3                | 3                   |
|            |     |          | 6                           | 3-4               | 3-4           |                  | 3-4           | 3                 |                       |            | 3           | 3                                |                  |                     |
|            |     |          | 6-7                         | 4                 | 4             |                  | 4             | 3-4               |                       |            | 4-5         | 4-5                              |                  |                     |
| Red 2B     | 1   | 80       | 5-6                         | 4-5               | 4-5           | 5                | 4             | 4                 | 4                     | 4-5        | 5           | 3                                | 4-5              | 4                   |
|            |     |          | 6                           | 4                 | 4-5           |                  | 3             | 3                 |                       |            | 4           | 4                                |                  |                     |
|            |     |          | 6-7                         | 4-5               | 5             |                  | 3-4           | 3-4               |                       |            | 5           | 4-5                              |                  |                     |
| Red B      | 1,5 | 45       | 5-6                         | 4                 | 3             | 4-5              | 4             | 4                 | 4                     | 4          | 4-5         | 45-5                             | 3                | 3                   |
|            |     |          | 6                           | 3-4               | 3-4           |                  | 3-4           | 3                 |                       |            | 3           | 3                                |                  |                     |
|            |     |          | 6-7                         | 4                 | 4             |                  | 4             | 3-4               |                       |            | 4-5         | 4-5                              |                  |                     |
| Red 3GP    | 1   | 70       | 4-5                         | 4-5               | 3-4           | 4-5              | 4             | 4                 | 4                     | 4-5        | 4-5         | 2B                               | 3                | 3                   |
|            |     |          | 5                           | 3                 | 3-4           |                  | 2-3           | 2-3               |                       |            | 3           | 2                                |                  |                     |
|            |     |          | 6                           | 4                 | 4             |                  | 3-4           | 3-4               |                       |            | 3-4         | 3-4                              |                  |                     |
| Violet 3B  | 1   | 10       | 4                           | 3-4               | 2-3           | 4-5              | 4             | 4                 | 4                     | 4          | 2-3         | 4                                | 2-3              | 2-3                 |
|            |     |          | 4-5                         | 3                 | 3-4           |                  | 2-3           | 3                 |                       |            | 2           | 2                                |                  |                     |
|            |     |          | 5-6                         | 4                 | 4             |                  | 4             | 4                 |                       |            | 3-4         | 4-5                              |                  |                     |
| Violet E2R | 1   | 30       | 4                           | 4-5               | 4-5           | 4-5              | 4-5           | 4-5               | 4-5                   | 4          | 4-5         | 4                                | 4-5              | 4                   |
|            |     |          | 4-5                         | 4-5               | 5             |                  | 4-5           | 4-5               |                       |            | 5           | 4-5                              |                  |                     |
|            |     |          | 5                           | 5                 | 5             |                  | 4-5           | 4-5               |                       |            | 5           | 4-5                              |                  |                     |
| Blue EFGL  | 1   | 25       | 5                           | 4-5               | 3-4           | 4                | 4-5           | 4                 | 4                     | 4-5        | 5           | 3-4                              | 3-4              | 4                   |
|            |     |          | 5-6                         | 3-4               | 4-5           |                  | 3             | 2                 |                       |            | 2-3         | 3-4                              |                  |                     |
|            |     |          | 6                           | 4-5               | 4             |                  | 3-4           | 3                 |                       |            | 4           | 4-5                              |                  |                     |
| Blue GBN   | 1   | 40       | 3-4                         | 4                 | 4-5           | 4-5              | 4-5           | 4                 | 4                     | 4-5        | 4-5         | 4                                | 4                | 4                   |
|            |     |          | 4-5                         | 3-4               | 4-5           |                  | 3-4           | 3                 |                       |            | 4           | 2-3                              |                  |                     |
|            |     |          | 5                           | 4-5               | 4             |                  | 4             | 3                 |                       |            | 4           | 4-5                              |                  |                     |
| Blue 4R    | 1   | 80       | 5-6                         | 4-5               | 4-5           | 5                | 4-5           | 4                 | 4                     | 4-5        | 4-5         | 3                                | 4-5              | 4-5                 |
|            |     |          | 6                           | 4                 | 4-5           |                  | 3-4           | 3                 |                       |            | 4           | 4-5                              |                  |                     |
|            |     |          | 6-7                         | 4-5               | 5             |                  | 4             | 3-4               |                       |            | 5           | 5                                |                  |                     |
| Blue A     | 1   | 25       | 4                           | 4                 | 3             | 4                | 4-5           | 3-4               | 3-4                   | 4-5        | 4           | 3R                               | 3                | 3                   |
|            |     |          | 5                           | 3-4               | 3             |                  | 2-3           | 2-3               |                       |            | 2           | 2                                |                  |                     |
|            |     |          | 5-6                         | 4                 | 3             |                  | 2-3           | 2-3               |                       |            | 3           | 4                                |                  |                     |
| Green G    | 1,5 | 40       | 5                           | 4                 | 4             | 4-5              | 4             | 4                 | 4                     | 4          | 4-5         | 2B                               | 3-4              | 3-4                 |
|            |     |          | 6                           | 4                 | 4-5           |                  | 4             | 3-4               |                       |            | 4           | 3-4                              |                  |                     |
|            |     |          | 6-7                         | 4-5               | 4-5           |                  | 4-5           | 3-4               |                       |            | 4           | 4                                |                  |                     |

### **Standard Dyeing method**

*Start at room temperature with:*

*Acetic Acid: 1,5/3% -pH= 4,5-5,5*

*Sodium Sulphate : 10-15%*

*Ugual H-CN: 0,5-2 %*

*Maintain 10 min. add the dyes and rise the temperature with gradient 1,5°c up to 98°c, then maintain it for 60 min.*

*If in dark shades the bath is not exhausted, decrease the temperature at 85°c and slowly add diluted Acetic or Formic Acid, rise the temperature at 98°c, maintain 15/30 min. Cool, drain and wash.*

**Coloranti per l'industria tessile.**  
***Dyes for the textile industry***

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