



**chimicatessile**

cromatos group



COLORANTI PER FIBRE PROTEICHE  
*WOOL DYES*

**CROMAZOL W**

## COLORANTI CROMAZOL W

La serie **Cromazol W** è costituita da coloranti reattivi particolarmente indicati per tingere lana e sue miste. I coloranti Cromazol W si applicano in ambienti da debolmente acidi ad acidi, a seconda dell'intensità di tinta. Sono adatti per la tintura della lana in fiocco, tops, filato e pezza. Le tricromie consigliate sono:

**Giallo Cromazol W4G**

**Giallo Cromazol WCE**

**Rosso Cromazol W6G**

**Rosso Cromazol WCE**

**Blu Cromazol W3G**

**Blu Cromazol WCE**

| CROMAZOL W |                          | % Dyeing | Solubility (g/l at 90°C) | Light             | Water             | Washing 40°C  | Dry Cleaning  | Acid perspiration | Perspiration Alkaline | Decatizing Severe | Rubbing    | Milling alkaline  | Crossdyeing Acetic Acid |
|------------|--------------------------|----------|--------------------------|-------------------|-------------------|---------------|---------------|-------------------|-----------------------|-------------------|------------|-------------------|-------------------------|
|            |                          |          |                          | 1/3<br>1/1<br>2/1 | E<br>Wo<br>Co     | E<br>Wo<br>Co | E<br>Wo<br>Co | E<br>Wo<br>Co     | E<br>Wo<br>Co         | E<br>Wo<br>Co     | E          | Dry<br>Wet        | E<br>Wo<br>Co           |
|            | <b>Yellow W-4G</b>       | 2        | 100                      | 6<br>7<br>7       | 4-5<br>5<br>5     | 4<br>5<br>5   | 5             | 4-5<br>5<br>5     | 4-5<br>4-5<br>5       | 4                 | 4-5<br>4-5 | 3-4<br>4<br>5     | 4<br>3<br>4-5           |
|            | <b>Yellow W-2G</b>       | 2        | 100                      | 4<br>4/5<br>4/5   | 4/5<br>5<br>5     | 4/5<br>5<br>5 | 4/5           | 4-5<br>5<br>5     | 4-5<br>4-5<br>5       | 4                 | 4/5<br>3/4 | 3-4<br>4<br>5     | 4/5<br>4<br>4-5         |
|            | <b>Yellow W-CE</b>       | 2        | 100                      | 5<br>5-6<br>6     | 4-5<br>4-5<br>5   | 4<br>4-5<br>5 | 4-5           | 4-5<br>5<br>5     | 4-5<br>4-5<br>5       | 4-5               | 4-5<br>4-5 | 3-4<br>4-5<br>4-5 | 4-5<br>3-4<br>5         |
|            | <b>Golden Yellow W-R</b> | 2        | 100                      | 4<br>4/5<br>4/5   | 4/5<br>5<br>5     | 4/5<br>5<br>5 | 4/5           | 4-5<br>5<br>5     | 4-5<br>4-5<br>5       | 4                 | 4/5<br>3/4 | 3-4<br>4<br>5     | 4/5<br>3/4<br>4-5       |
|            | <b>Scarlet W-3G</b>      | 2        | 60                       | 4-5<br>5-6<br>6   | 5<br>5<br>5       | 4-5<br>5<br>5 | 5             | 4-5<br>5<br>5     | 4-5<br>5<br>4-5       | 4-5               | 5<br>3     | 4-5<br>4-5<br>5   | 4-5<br>3-4<br>4-5       |
|            | <b>Red W-6G</b>          | 2        | 70                       | 5-6<br>6-7<br>7   | 5<br>5<br>5       | 4-5<br>5<br>5 | 5             | 5<br>5<br>5       | 5<br>4-5<br>5         | 5                 | 5<br>3-4   | 4-5<br>4<br>5     | 4-5<br>3<br>4-5         |
|            | <b>Red W-CE</b>          | 2        | 50                       | 3/4<br>5<br>6     | 4/5<br>4/5<br>4/5 | 4<br>4/5<br>5 | 4/5           | 4/5<br>4/5<br>5   | 4/5<br>5<br>4/5       | 4/5               | 4/5<br>4   | 3/4<br>4/5<br>4/5 | 5<br>4<br>5             |
|            | <b>Red W-GN</b>          | 2        | 100                      | 4<br>5/6<br>6     | 5<br>5<br>5       | 4/5<br>5<br>5 | 5             | 5<br>5<br>5       | 5<br>5<br>5           | 4                 | 4/5<br>4/5 | 4/5<br>5<br>4/5   | 4/5<br>4/5<br>5         |
|            | <b>Red W-B</b>           | 2        | 100                      | 5/6<br>6<br>7     | 5<br>5<br>5       | 4/5<br>5<br>5 | 5             | 5<br>5<br>4/5     | 5<br>4/5<br>4         | 5                 | 4/5<br>4   | 4/5<br>4<br>3     | 4<br>2/3<br>4           |

| CROMAZOL W |                       | % Dyeing | Solubility (g/l at 90°C) | Light             | Water           | Washing 40°C  | Dry Cleaning  | Acid Perspiration | Perspiration Alkaline | Decatizing Severe | Rubbing    | Milling alkaline | Crossdyeing Acetic Acid |
|------------|-----------------------|----------|--------------------------|-------------------|-----------------|---------------|---------------|-------------------|-----------------------|-------------------|------------|------------------|-------------------------|
|            |                       |          |                          | 1/3<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          | Dry<br>Wet       | F<br>Wo<br>Co           |
|            | <b>Red W-3BS</b>      | 2        | 100                      | 3<br>4<br>4/5     | 5<br>5<br>5     | 4/5<br>5<br>5 | 5             | 4/5<br>5<br>4/5   | 4/5<br>5<br>4         | 4                 | 4/5<br>3/4 | 4/5<br>4<br>4    | 4/5<br>4<br>4/5         |
|            | <b>Red W-5B</b>       | 2        | 100                      | 5<br>5/6<br>6/7   | 5<br>5<br>5     | 4/5<br>5<br>5 | 5             | 4/5<br>5<br>4/5   | 4/5<br>5<br>4         | 4                 | 4/5<br>3/4 | 4/5<br>4<br>4    | 4/5<br>3<br>4/5         |
|            | <b>Turquoise W-5G</b> | 2        | 100                      | -<br>5/6<br>6     | 4/5<br>5<br>4/5 | 4/5<br>5<br>5 | 4/5           | 4/5<br>4/5<br>4   | 4/5<br>4/5<br>3       | 4                 | 4/5<br>4   | 3<br>4<br>2/3    | 4/5<br>3/4<br>4/5       |
|            | <b>Blue W-CE</b>      | 2        | 100                      | 4<br>5<br>5/6     | 4/5<br>5<br>5   | 4/5<br>5<br>5 | 4/5           | 5<br>5<br>5       | 4/5<br>4/5<br>5       | 4/5               | 4/5<br>4/5 | 4/5<br>4/5<br>5  | 4/5<br>3/4<br>5         |
|            | <b>Blue W-3G</b>      | 2        | 100                      | 5/6<br>6/7<br>6/7 | 4/5<br>5<br>5   | 4/5<br>5<br>5 | 5             | 4<br>5<br>5       | 4<br>4/5<br>4/5       | 4/5               | 4/5<br>4   | 4<br>3/4<br>5    | 4<br>3<br>4/5           |
|            | <b>Blue W-3R</b>      | 2        | 100                      | 5<br>6<br>6/7     | 5<br>5<br>5     | 4/5<br>5<br>5 | 5             | 5<br>5<br>5       | 5<br>5<br>4/5         | 4/5               | 4/5<br>3/4 | 4/5<br>3/4<br>5  | 4<br>2/3<br>4/5         |
|            | <b>Blue W-PFL</b>     | 2        | 80                       | 4<br>5<br>5/6     | 4/5<br>5<br>5   | 4/5<br>5<br>5 | 4/5           | 5<br>5<br>5       | 4/5<br>4/5<br>5       | 4/5               | 4/5<br>4/5 | 4/5<br>4/5<br>5  | 4/5<br>3/4<br>5         |
|            | <b>Navy Blue WBR5</b> | 4%       | 100                      | -<br>4<br>5       | 5<br>5<br>5     | 5<br>5<br>5   | 5             | 5<br>5<br>5       | 5<br>5<br>5           | 5                 | 4/5<br>3/4 | 5<br>5<br>5      | 5<br>4<br>4/5           |
|            | <b>Navy W-CE</b>      | 4        | 100                      | -<br>4<br>5       | 5<br>5<br>5     | 5<br>5<br>5   | 5             | 5<br>5<br>5       | 5<br>5<br>5           | 5                 | 4/5<br>3/4 | 5<br>5<br>5      | 5<br>4<br>4/5           |
|            | <b>Black W-CE</b>     | 5        | 100                      | -<br>-<br>5       | 5<br>5<br>5     | 5<br>5<br>5   | 5             | 5<br>5<br>5       | 5<br>5<br>5           | 5                 | 4/5<br>3/4 | 5<br>5<br>5      | 5<br>4<br>4/5           |

| CROMAZOL W |                    | % Dyeing | Solubility (g/l at 90°C) | Light             | Water         | Washing 40°C  | Dry Cleaning  | Acid Perspiration | Perspiration Alkaline | Decatizing Severe | Rubbing    | Milling alkaline | Crossdyeing Acetic Acid |
|------------|--------------------|----------|--------------------------|-------------------|---------------|---------------|---------------|-------------------|-----------------------|-------------------|------------|------------------|-------------------------|
|            |                    |          |                          | 1/3<br>1/1<br>2/1 | E<br>Wo<br>Co | E<br>Wo<br>Co | E<br>Wo<br>Co | E<br>Wo<br>Co     | E<br>Wo<br>Co         | E<br>Wo<br>Co     | E          | Dry<br>Wet       | E<br>Wo<br>Co           |
|            | <b>Black W-CER</b> | 5        | 100                      | -<br>-<br>5       | 5<br>5<br>5   | 5<br>5<br>5   | 5             | 5<br>5<br>5       | 5<br>5<br>5           | 5                 | 4/5<br>3/4 | 5<br>5<br>5      | 5<br>4<br>4/5           |
|            | <b>Black W-CT</b>  | 5        | 100                      | -<br>-<br>5       | 5<br>5<br>5   | 5<br>5<br>5   | 5             | 5<br>5<br>5       | 5<br>5<br>5           | 5                 | 4/5<br>3/4 | 5<br>5<br>5      | 5<br>4<br>4/5           |
|            | <b>Black W-3R</b>  | 4        | 100                      | -<br>-<br>5       | 5<br>5<br>5   | 5<br>5<br>5   | 5             | 5<br>5<br>5       | 5<br>5<br>5           | 5                 | 4/5<br>3/4 | 5<br>5<br>5      | 5<br>4<br>4/5           |

### Metodo di tintura standard utilizzato

Partire con bagno a 40°C con:

Acido Acetico o Formico: pH = 6,5 -4,5 a seconda dell'intensità di tinta

Henksoap NE: 1 gr/l

Ugual H-W Liq: 2%

Ugual RE: 1-1,5%

Far girare il bagno 10 Minuti, aggiungere il colorante preventivamente disciolto e portare la temperatura a 100°C ( gradiente di 1,5° al min.). Mantenere 60 minuti per toni medio scuri, 90 minuti per blu marini o neri, quindi raffreddare a 80/85°C. Aggiungere Ammoniaca o Carbonato di Sodio per ottenere pH=8-8,5 e mantenere 15 minuti. Raffreddare, scaricare, lavare a freddo. Per ottenere le massime solidità preparare un nuovo bagno con Ammoniaca o Carbonato di Sodio pH = 8-8,5%, portare la temperatura a 80-85°C, mantenere 15 minuti, quindi raffreddare, scaricare, lavare, neutralizzare e finire come di consueto. Nella tintura dei filati per migliorare l'ugualizzazione è opportuno fare una sosta di 10 minuti a 75/80°C.

## CROMAZOL W DYES

*Cromazol W dyes are reactive dyes particularly suitable for exhaustion dyeing of wool and its blends. Cromazol W dyes are applied from weakly acid to acid bath, according to the dyeing intensity. They are suitable for tops, yarn and fabric dyeing.*

| CROMAZOL W |                          | % Dyeing | Solubility (g/l at 90°C) | Light             | Water             | Washing 40°C  | Dry Cleaning  | Acid perspiration | Perspiration Alkaline | Decatizing Severe | Rubbing    | Milling alkaline  | Crossdyeing Acetic Acid |
|------------|--------------------------|----------|--------------------------|-------------------|-------------------|---------------|---------------|-------------------|-----------------------|-------------------|------------|-------------------|-------------------------|
|            |                          |          |                          | 1/3<br>1/1<br>2/1 | E<br>Wo<br>Co     | E<br>Wo<br>Co | E<br>Wo<br>Co | E<br>Wo<br>Co     | E<br>Wo<br>Co         | E<br>Wo<br>Co     | E          | Dry<br>Wet        | E<br>Wo<br>Co           |
|            | <b>Yellow W-4G</b>       | 2        | 100                      | 6<br>7<br>7       | 4-5<br>5<br>5     | 4<br>5<br>5   | 5             | 4-5<br>5<br>5     | 4-5<br>4-5<br>5       | 4                 | 4-5<br>4-5 | 3-4<br>4<br>5     | 4<br>3<br>4-5           |
|            | <b>Yellow W-2G</b>       | 2        | 100                      | 4<br>4/5<br>4/5   | 4/5<br>5<br>5     | 4/5<br>5<br>5 | 4/5           | 4-5<br>5<br>5     | 4-5<br>4-5<br>5       | 4                 | 4/5<br>3/4 | 3-4<br>4<br>5     | 4/5<br>4<br>4-5         |
|            | <b>Yellow W-CE</b>       | 2        | 100                      | 5<br>5-6<br>6     | 4-5<br>4-5<br>5   | 4<br>4-5<br>5 | 4-5           | 4-5<br>5<br>5     | 4-5<br>4-5<br>5       | 4-5               | 4-5<br>4-5 | 3-4<br>4-5<br>4-5 | 4-5<br>3-4<br>5         |
|            | <b>Golden Yellow W-R</b> | 2        | 100                      | 4<br>4/5<br>4/5   | 4/5<br>5<br>5     | 4/5<br>5<br>5 | 4/5           | 4-5<br>5<br>5     | 4-5<br>4-5<br>5       | 4                 | 4/5<br>3/4 | 3-4<br>4<br>5     | 4/5<br>3/4<br>4-5       |
|            | <b>Scarlet W-3G</b>      | 2        | 60                       | 4-5<br>5-6<br>6   | 5<br>5<br>5       | 4-5<br>5<br>5 | 5             | 4-5<br>5<br>5     | 4-5<br>5<br>4-5       | 4-5               | 5<br>3     | 4-5<br>4-5<br>5   | 4-5<br>3-4<br>4-5       |
|            | <b>Red W-6G</b>          | 2        | 70                       | 5-6<br>6-7<br>7   | 5<br>5<br>5       | 4-5<br>5<br>5 | 5             | 5<br>5<br>5       | 5<br>4-5<br>5         | 5                 | 5<br>3-4   | 4-5<br>4<br>5     | 4-5<br>3<br>4-5         |
|            | <b>Red W-CE</b>          | 2        | 50                       | 3/4<br>5<br>6     | 4/5<br>4/5<br>4/5 | 4<br>4/5<br>5 | 4/5           | 4/5<br>4/5<br>5   | 4/5<br>5<br>4/5       | 4/5               | 4/5<br>4   | 3/4<br>4/5<br>4/5 | 5<br>4<br>5             |
|            | <b>Red W-GN</b>          | 2        | 100                      | 4<br>5/6<br>6     | 5<br>5<br>5       | 4/5<br>5<br>5 | 5             | 5<br>5<br>5       | 5<br>5<br>5           | 4                 | 4/5<br>4/5 | 4/5<br>5<br>4/5   | 4/5<br>4/5<br>5         |
|            | <b>Red W-B</b>           | 2        | 100                      | 5/6<br>6<br>7     | 5<br>5<br>5       | 4/5<br>5<br>5 | 5             | 5<br>5<br>4/5     | 5<br>4/5<br>4         | 5                 | 4/5<br>4   | 4/5<br>4<br>3     | 4<br>2/3<br>4           |

| CROMAZOL W |                | % Dyeing | Solubility (g/l at 90°C) | Light             | Water           | Washing 40°C  | Dry Cleaning  | Acid Perspiration | Perspiration Alkaline | Decatizing Severe | Rubbing    | Milling alkaline | Crossdyeing Acetic Acid |
|------------|----------------|----------|--------------------------|-------------------|-----------------|---------------|---------------|-------------------|-----------------------|-------------------|------------|------------------|-------------------------|
|            |                |          |                          | 1/3<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          | Dry<br>Wet       | F<br>Wo<br>Co           |
|            | Red W-3BS      | 2        | 100                      | 3<br>4<br>4/5     | 5<br>5<br>5     | 4/5<br>5<br>5 | 5             | 4/5<br>5<br>4/5   | 4/5<br>5<br>4         | 4                 | 4/5<br>3/4 | 4/5<br>4<br>4    | 4/5<br>4<br>4/5         |
|            | Red W-5B       | 2        | 100                      | 5<br>5/6<br>6/7   | 5<br>5<br>5     | 4/5<br>5<br>5 | 5             | 4/5<br>5<br>4/5   | 4/5<br>5<br>4         | 4                 | 4/5<br>3/4 | 4/5<br>4<br>4    | 4/5<br>3<br>4/5         |
|            | Turquoise W-5G | 2        | 100                      | -<br>5/6<br>6     | 4/5<br>5<br>4/5 | 4/5<br>5<br>5 | 4/5           | 4/5<br>4/5<br>4   | 4/5<br>4/5<br>3       | 4                 | 4/5<br>4   | 3<br>4<br>2/3    | 4/5<br>3/4<br>4/5       |
|            | Blue W-CE      | 2        | 100                      | 4<br>5<br>5/6     | 4/5<br>5<br>5   | 4/5<br>5<br>5 | 4/5           | 5<br>5<br>5       | 4/5<br>4/5<br>5       | 4/5               | 4/5<br>4/5 | 4/5<br>4/5<br>5  | 4/5<br>3/4<br>5         |
|            | Blue W-3G      | 2        | 100                      | 5/6<br>6/7<br>6/7 | 4/5<br>5<br>5   | 4/5<br>5<br>5 | 5             | 4<br>5<br>5       | 4<br>4/5<br>4/5       | 4/5               | 4/5<br>4   | 4<br>3/4<br>5    | 4<br>3<br>4/5           |
|            | Blue W-3R      | 2        | 100                      | 5<br>6<br>6/7     | 5<br>5<br>5     | 4/5<br>5<br>5 | 5             | 5<br>5<br>5       | 5<br>5<br>4/5         | 4/5               | 4/5<br>3/4 | 4/5<br>3/4<br>5  | 4<br>2/3<br>4/5         |
|            | Blue W-PFL     | 2        | 80                       | 4<br>5<br>5/6     | 4/5<br>5<br>5   | 4/5<br>5<br>5 | 4/5           | 5<br>5<br>5       | 4/5<br>4/5<br>5       | 4/5               | 4/5<br>4/5 | 4/5<br>4/5<br>5  | 4/5<br>3/4<br>5         |
|            | Navy Blue WBRs | 4%       | 100                      | -<br>4<br>5       | 5<br>5<br>5     | 5<br>5<br>5   | 5             | 5<br>5<br>5       | 5<br>5<br>5           | 5                 | 4/5<br>3/4 | 5<br>5<br>5      | 5<br>4<br>4/5           |
|            | Navy W-CE      | 4        | 100                      | -<br>4<br>5       | 5<br>5<br>5     | 5<br>5<br>5   | 5             | 5<br>5<br>5       | 5<br>5<br>5           | 5                 | 4/5<br>3/4 | 5<br>5<br>5      | 5<br>4<br>4/5           |
|            | Black W-CE     | 5        | 100                      | -<br>-<br>5       | 5<br>5<br>5     | 5<br>5<br>5   | 5             | 5<br>5<br>5       | 5<br>5<br>5           | 5                 | 4/5<br>3/4 | 5<br>5<br>5      | 5<br>4<br>4/5           |

| CROMAZOL<br>W |                    | % Dyeing | Solubility (g/l at 90°C) | Light             | Water         | Washing 40°C  | Dry Cleaning  | Acid<br>Perspiration | Perspiration<br>Alkaline | Decatizing<br>Severe | Rubbing    | Milling alkaline | Crossdyeing<br>Acetic Acid |
|---------------|--------------------|----------|--------------------------|-------------------|---------------|---------------|---------------|----------------------|--------------------------|----------------------|------------|------------------|----------------------------|
|               |                    |          |                          | 1/3<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          | Dry<br>Wet       | F<br>Wo<br>Co              |
|               | <b>Black W-CER</b> | 5        | 100                      | -<br>-<br>5       | 5<br>5<br>5   | 5<br>5<br>5   | 5             | 5<br>5<br>5          | 5<br>5<br>5              | 5                    | 4/5<br>3/4 | 5<br>5<br>5      | 5<br>4<br>4/5              |
|               | <b>Black W-CT</b>  | 5        | 100                      | -<br>-<br>5       | 5<br>5<br>5   | 5<br>5<br>5   | 5             | 5<br>5<br>5          | 5<br>5<br>5              | 5                    | 4/5<br>3/4 | 5<br>5<br>5      | 5<br>4<br>4/5              |
|               | <b>Black W-3R</b>  | 4        | 100                      | -<br>-<br>5       | 5<br>5<br>5   | 5<br>5<br>5   | 5             | 5<br>5<br>5          | 5<br>5<br>5              | 5                    | 4/5<br>3/4 | 5<br>5<br>5      | 5<br>4<br>4/5              |

### Standard Dyeing method

Prepare the bath to 40°c with:

Acetic or Formic Acid pH=6,5 4,5 depending on the dyeing intensity

Henksoap NE: 1 gr/l

Ugual H-W Liq: 2%

Ugual RE: 1-1,5%

Maintain 10 min., add the dyes and rise the temperature at 100°C (gradient 1,5° min.). Maintain 60 min. for medium shades, 90 min. for dark shades (Navy, Black) then cool to 80/85°C, add ammonia or soda ash (pH=8,5) and maintain for 15 min. Cool, drain, wash. For obtaining the maximum fastness, prepare a new bath with ammonia or soda ash (pH=8,5), rise the temperature at 80/85°C and maintain for 15 min., then cool, drain, wash to cool water, neutralize and finish as usual. On yarn dyeing, in order to obtain the best results, a 10 min stop to 75/80°C is highly recommended.

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

**Chimica Tessile S.r.l.**

Via Guimaraes, 5 | 59100 Prato | Italy  
T +39 0574 62 32 82 | F +39 0574 62 32 84  
info@chimicatessile.it | www.chimicatessile.it



**chimicatessile**

cromatos group