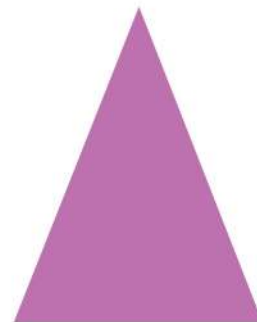




**REACTIVE DYES**  
ARAFIX® & ARAZOL®



RED RB

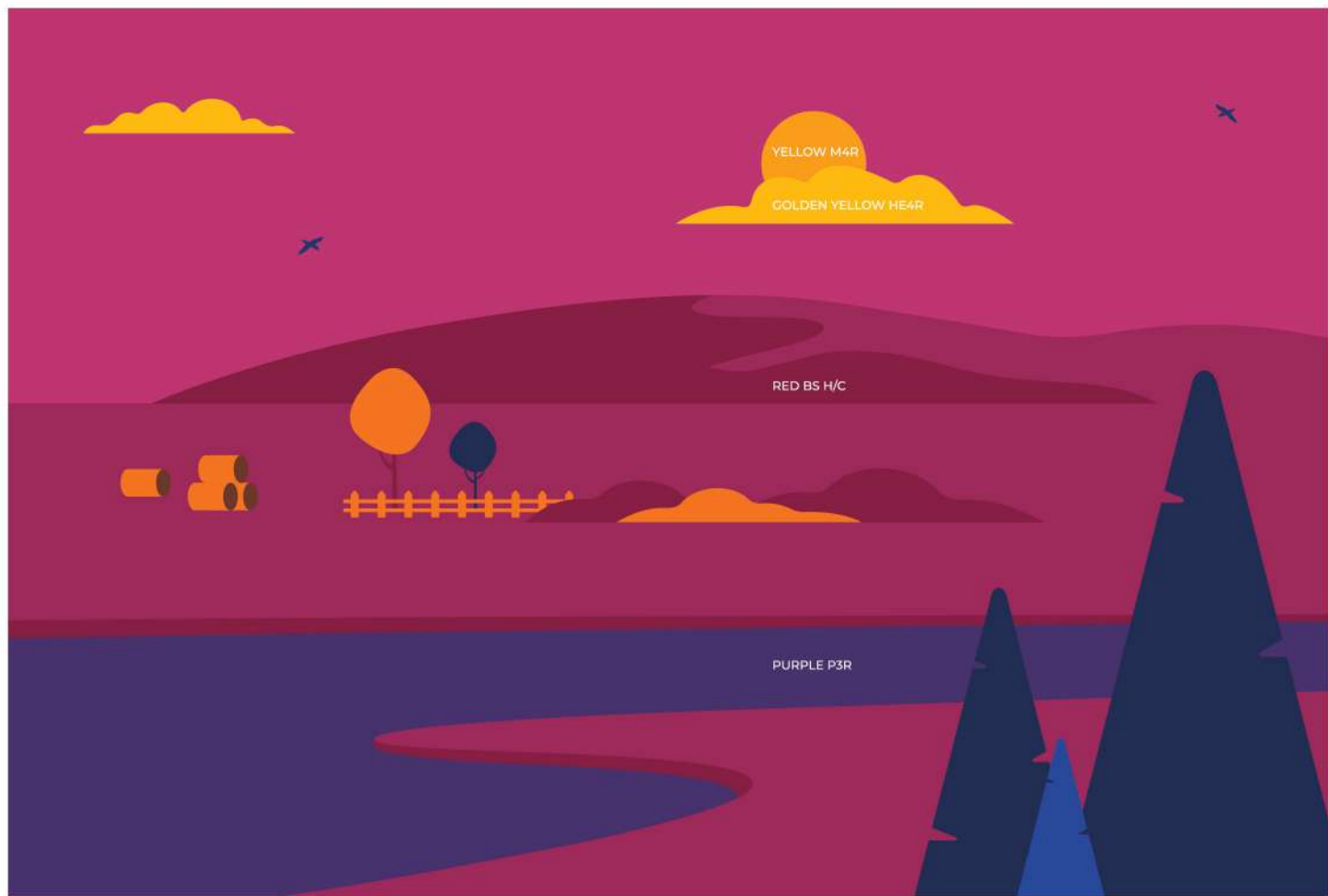
RED BS H/C

RED BB

NAVY BLUE 3CXL

BLUE P3R







# ARAFIX® M DYES

2%

|                      |                                                                                    | C I Name | Solubility in gpl at 30°C | Affinity | Reactivity | Fixation Temperature °C | Process Suitability |                |          |            | Dischargeability | Other Fastness               |                               | Light Fastness AATCC 16E |      |      | Post Fastness Properties |                                       |                   |                                        |
|----------------------|------------------------------------------------------------------------------------|----------|---------------------------|----------|------------|-------------------------|---------------------|----------------|----------|------------|------------------|------------------------------|-------------------------------|--------------------------|------|------|--------------------------|---------------------------------------|-------------------|----------------------------------------|
|                      |                                                                                    |          |                           |          |            |                         | Exhaust             | Cold Pad Batch | Printing | Continuous |                  | Washing Fastness ISO 105 C04 | Rubbing ISO 105/X12 Dry / Wet | 0.1%                     | 1.0% | 2.0% | Water ISO 105 E01        | Chlorinated Pool Water AATCC 162/2002 | Hydrogen Peroxide | Perspiration ISO 105 E04 Acid / Alkali |
| BRILLIANT YELLOW M8G |   | Y86      | 80                        | M        | H          | 40                      | S                   | NS             | S        | LS         | Moderate         | 4-5                          | 4<br>4                        | 3-4                      | 3-4  | 4    | 4                        | 3                                     | 3-4               | 4-5<br>4-5                             |
| YELLOW M4G           |   | Y22      | 65                        | M        | M          | 40                      | S                   | NS             | S        | LS         | Good             | 4-5                          | 4-5<br>4                      | 3-4                      | 4    | 4    | 5                        | 3                                     | 3-4               | 4-5<br>4-5                             |
| GOLDEN YELLOW MR     |   | Y44      | 150                       | M        | M          | 40                      | S                   | LS             | S        | LS         | Poor             | 4-5                          | 4<br>3-4                      | 3-4                      | 3-4  | 4    | 4-5                      | 3-4                                   | 4                 | 4<br>4                                 |
| GOLDEN YELLOW M3R    |   | O86      | 120                       | H        | M          | 40                      | S                   | LS             | S        | LS         | Moderate         | 4-5                          | 4<br>3-4                      | 4                        | 4-5  | 4-5  | 4-5                      | 3-4                                   | 4                 | 4-5<br>4-5                             |
| YELLOW M4R           |   | O14      | 150                       | M        | M          | 40                      | S                   | LS             | S        | LS         | Poor             | 4                            | 4<br>3-4                      | 3-4                      | 4    | 4    | 4-5                      | 3                                     | 3                 | 4<br>4                                 |
| BRILLIANT ORANGE M2R |   | O4       | 65                        | M        | M          | 40                      | S                   | LS             | S        | LS         | Poor             | 4                            | 4<br>3-4                      | 3                        | 3-4  | 3-4  | 4-5                      | 3                                     | 3-4               | 4<br>4                                 |
| BRILLIANT RED M5B    |  | R2       | 80                        | H        | M          | 40                      | S                   | LS             | S        | LS         | Poor             | 4                            | 3-4<br>3                      | 3                        | 3-4  | 3-4  | 4-5                      | 3                                     | 3                 | 4<br>4                                 |

**AA**  
**ARAFIX® M DYES**

2%

| <div></div> <div>ARAFIX® M DYES</div> <div>2%</div> |                                                                                   | C I Name | Solubility in gpl at 30°C | Affinity | Reactivity | Fixation Temperature °C | Process Suitability |                |          |            | Dischargeability | Other Fastness               |                               | Light Fastness AATCC 16E |      |      | Post Fastness Properties |                                       |                   |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|---------------------------|----------|------------|-------------------------|---------------------|----------------|----------|------------|------------------|------------------------------|-------------------------------|--------------------------|------|------|--------------------------|---------------------------------------|-------------------|----------------------------------------|
|                                                                                                                                      |                                                                                   |          |                           |          |            |                         | Exhaust             | Cold Pad Batch | Printing | Continuous |                  | Washing Fastness ISO 105 C04 | Rubbing ISO 105/X12 Dry / Wet | 0.1%                     | 1.0% | 2.0% | Water ISO 105 E01        | Chlorinated Pool Water AATCC 162:2002 | Hydrogen Peroxide | Perspiration ISO 105 E04 Acid / Alkali |
|                                                                                                                                      |                                                                                   |          |                           |          |            |                         |                     |                |          |            |                  |                              |                               |                          |      |      |                          |                                       |                   |                                        |
| BRILLIANT RED M8B                                                                                                                    |  | R11      | 70                        | H        | M          | 40                      | S                   | NS             | S        | LS         | Poor             | 4-5                          | 3-4<br>3                      | 3                        | 3-4  | 3-4  | 4-5                      | 2-3                                   | 3-4               | 3<br>3                                 |
| BRILLIANT MAGENTA MB                                                                                                                 |  | V13      | 70                        | H        | M          | 40                      | S                   | NS             | S        | LS         | Moderate         | 4                            | 4<br>3-4                      | 3-4                      | 4    | 4-5  | 4                        | 2-3                                   | 3                 | 4-5<br>4-5                             |
| BRILLIANT VIOLET M4R                                                                                                                 |  | V12      | 70                        | H        | M          | 40                      | S                   | NS             | S        | LS         | Moderate         | 4                            | 4-5<br>4                      | 3                        | 3-4  | 3-4  | 4-5                      | 4                                     | 3-4               | 4-5<br>4                               |
| BRILLIANT BLUE MR                                                                                                                    |  | BL4      | 80                        | H        | M          | 40                      | S                   | LS             | S        | LS         | Poor             | 4-5                          | 4-5<br>4                      | 3-4                      | 4    | 4    | 4-5                      | 3-4                                   | 3-4               | 4-5<br>4-5                             |
| BLUE M2R                                                                                                                             |  | BL81     | 70                        | H        | M          | 40                      | S                   | LS             | S        | LS         | Poor             | 4                            | 4<br>3-4                      | 3                        | 3    | 3-4  | 4-5                      | 3-4                                   | 3-4               | 4<br>4                                 |
| NAVY BLUE M3R                                                                                                                        |  | BL9      | 70                        | H        | M          | 40                      | S                   | LS             | S        | LS         | Moderate         | 4-5                          | 4-5<br>4                      | 2-3                      | 3    | 3-4  | 4-5                      | 4                                     | 4                 | 4<br>4                                 |



## ARAZOL® H & P DYES

2%

|                                                                                                      | C I Name | Solubility in gpl at 30°C | Affinity | Reactivity | Fixation Temperature °C at Steaming | Process Suitability |                |          |            | Other Fastness               |                         |                         | Light Fastness AATCC 16E |      |      | Post Fastness Properties |                                       |                   |                               |                                 |
|------------------------------------------------------------------------------------------------------|----------|---------------------------|----------|------------|-------------------------------------|---------------------|----------------|----------|------------|------------------------------|-------------------------|-------------------------|--------------------------|------|------|--------------------------|---------------------------------------|-------------------|-------------------------------|---------------------------------|
|                                                                                                      |          |                           |          |            |                                     | Exhaust             | Cold Pad Batch | Printing | Continuous | Washing Fastness ISO 105 C04 | Rubbing ISO 105/X12 Dry | Rubbing ISO 105/X12 Wet | 0.1%                     | 1.0% | 2.0% | Water ISO 105 E01        | Chlorinated Pool Water AATCC 162/2002 | Hydrogen Peroxide | Perspiration ISO 105 E04 Acid | Perspiration ISO 105 E04 Alkali |
| YELLOW H6G          | Y95      | 80                        | L        | M          | 110                                 | NS                  | NS             | HS       | NS         | 4                            | 4-5                     | 4                       | 3-4                      | 4    | 4    | 4-5                      | 3-4                                   | 3-4               | 4-5                           | 4-5                             |
| YELLOW H4G          | Y18      | 150                       | L        | M          | 110                                 | NS                  | NS             | HS       | NS         | 5                            | 4-5                     | 4                       | 4                        | 4    | 4    | 4-5                      | 3-4                                   | 3-4               | 4                             | 4-5                             |
| GOLDEN YELLOW P2RN  | O12      | 100                       | M        | M          | 110                                 | NS                  | NS             | HS       | NS         | 5                            | 4-5                     | 4                       | 3-4                      | 4    | 4    | 4-5                      | 3-4                                   | 4-5               | 4-5                           | 4-5                             |
| ORANGE P2R          | O13      | 100                       | M        | M          | 110                                 | NS                  | NS             | HS       | NS         | 4-5                          | 4                       | 3-4                     | 3                        | 3-4  | 4    | 4-5                      | 3                                     | 4                 | 3-4                           | 4                               |
| RED PB              | R24      | 100                       | H        | L          | 110                                 | NS                  | NS             | HS       | NS         | 4-5                          | 4                       | 4                       | 3                        | 3-4  | 4    | 4-5                      | 3-4                                   | 3-4               | 3-4                           | 4                               |
| RED P4B             | R245     | 150                       | M        | L          | 110                                 | NS                  | NS             | HS       | NS         | 4-5                          | 4                       | 3-4                     | 3-4                      | 4    | 4    | 4                        | 1                                     | 1                 | 3-4                           | 4                               |
| RED P8B            | R31      | 80                        | M        | L          | 110                                 | NS                  | NS             | HS       | NS         | 4-5                          | 3-4                     | 3                       | 2-3                      | 3    | 3    | 4-5                      | 3                                     | 2-3               | 3-4                           | 4                               |



## ARAZOL® H & P DYES

2%

|                    |  | C I Name | Solubility in gpl at 30°C | Affinity | Reactivity | Fixation Temperature °C at Steaming | Process Suitability |                |          |            | Other Fastness               |                         |                         | Light Fastness AATCC 16E |      |      | Post Fastness Properties |                                       |                   |                               |                                 |
|--------------------|--|----------|---------------------------|----------|------------|-------------------------------------|---------------------|----------------|----------|------------|------------------------------|-------------------------|-------------------------|--------------------------|------|------|--------------------------|---------------------------------------|-------------------|-------------------------------|---------------------------------|
|                    |  |          |                           |          |            |                                     | Exhaust             | Cold Pad Batch | Printing | Continuous | Washing Fastness ISO 105 C04 | Rubbing ISO 105/X12 Dry | Rubbing ISO 105/X12 Wet | 0.1%                     | 1.0% | 2.0% | Water ISO 105 E01        | Chlorinated Pool Water AATCC 162/2002 | Hydrogen Peroxide | Perspiration ISO 105 E04 Acid | Perspiration ISO 105 E04 Alkali |
| MAGENTA PB         |  | V46      | 80                        | M        | L          | 110                                 | NS                  | NS             | HS       | NS         | 4-5                          | 4                       | 3                       | 3                        | 3    | 3-4  | 4-5                      | 2-3                                   | 2-3               | 3-4                           | 4                               |
| TURQUOISE BLUE H5G |  | BL25     | 80                        | H        | L          | 110                                 | NS                  | NS             | HS       | NS         | 2-3                          | 3-4                     | 2-3                     | 3                        | 3    | 3-4  | 3                        | 2-3                                   | 3                 | 4                             | 4                               |
| BLUE P3R           |  | BL49     | 100                       | M        | M          | 110                                 | NS                  | NS             | HS       | NS         | 4-5                          | 3-4                     | 3                       | 3-4                      | 4    | 4    | 4                        | 1-2                                   | 3                 | 4                             | 4-5                             |
| PURPLE P3R         |  | V1       | 100                       | M        | L          | 110                                 | NS                  | NS             | HS       | NS         | 4-5                          | 4                       | 3-4                     | 3-4                      | 4    | 4    | 5                        | 2-3                                   | 2-3               | 4                             | 4                               |
| NAVY BLUE P2R      |  | BL39     | 120                       | L        | M          | 110                                 | NS                  | NS             | HS       | NS         | 4                            | 4                       | 3-4                     | --                       | 3    | 3-4  | 4-5                      | 2-3                                   | 3                 | 4                             | 4-5                             |
| BLACK HN           |  | B8       | 80                        | L        | M          | 110                                 | NS                  | NS             | HS       | NS         | 4-5                          | 3-4                     | 3                       | 3                        | 3-4  | 4    | 4-5                      | 1                                     | 3                 | 4                             | 4                               |
| BLACK PGR          |  | B*       | 120                       | L        | M          | 110                                 | NS                  | NS             | HS       | NS         | 4                            | 4                       | 3-4                     | --                       | 3    | 3-4  | 4-5                      | 2-3                                   | 3                 | 4                             | 4-5                             |



## ARAFIX® HE DYES

2%

|                    |  | C I Name | Solubility in gpl at 30°C | Affinity | Reactivity | Fixation Temperature °C | Process Suitability |                |          |            | Dischargeability | Other Fastness               |                               | Light Fastness AATCC 16E |      |      | Post Fastness Properties |                                       |                   |                            |                                         |
|--------------------|--|----------|---------------------------|----------|------------|-------------------------|---------------------|----------------|----------|------------|------------------|------------------------------|-------------------------------|--------------------------|------|------|--------------------------|---------------------------------------|-------------------|----------------------------|-----------------------------------------|
|                    |  |          |                           |          |            |                         | Exhaust             | Cold Pad Batch | Printing | Continuous |                  | Washing Fastness ISO 105 C04 | Rubbing ISO 105/X12 Dry / Wet | 0.1%                     | 1.0% | 2.0% | Water ISO 105 E01        | Chlorinated Pool Water AATCC 162/2002 | Hydrogen Peroxide | Mercerizing (ISO 105 X 04) | Perspiration ISO 105 E04 Acid / Alkalia |
| YELLOW HE6G        |  | Y135     | 50                        | H        | L          | 60-80                   | S                   | NS             | S        | NS         | Good             | 4-5                          | 4-5<br>4                      | 3-4                      | 3-4  | 4    | 4-5                      | 3                                     | 4-5               | --                         | 4-5<br>4-5                              |
| YELLOW HE4G        |  | Y81      | 40                        | M        | H          | 80                      | HS                  | NS             | NS       | NS         | Poor             | 4                            | 3-4<br>3-4                    | 3-4                      | 3-4  | 4    | 4                        | 4                                     | 4-5               | 4                          | 4-5<br>4-5                              |
| GOLDEN YELLOW HE4R |  | Y84      | 70                        | H        | H          | 80                      | HS                  | S              | NS       | NS         | Poor             | 4                            | 3-4<br>3                      | 3                        | 3-4  | 4    | 4                        | 4                                     | 4-5               | 4                          | 4-5<br>4-5                              |
| ORANGE HER         |  | O84      | 50                        | H        | H          | 80                      | HS                  | LS             | NS       | NS         | Poor             | 4-5                          | 3-4<br>2-3                    | 2-3                      | 3-4  | 3-4  | 3-4                      | 3-4                                   | 4-5               | 3                          | 4<br>4                                  |
| ORANGE HE2R        |  | O86      | 80                        | H        | M          | 60-80                   | S                   | LS             | NS       | NS         | Poor             | 3-4                          | 3-4<br>2-3                    | 2-3                      | 3    | 3-4  | 4                        | 4-5                                   | 5                 | 3                          | 4<br>4                                  |
| RED HE3B           |  | R120     | 100                       | H        | H          | 80                      | HS                  | LS             | NS       | NS         | Poor             | 4-5                          | 4<br>3                        | 3-4                      | 4    | 4    | 4-5                      | 4                                     | 4                 | 4                          | 4-5<br>4-5                              |
| RED HE7B           |  | R141     | 120                       | H        | H          | 80                      | HS                  | S              | S        | NS         | Poor             | 4-5                          | 4<br>3                        | 3-4                      | 3-4  | 4    | 4-5                      | 4                                     | 4                 | 4                          | 4-5<br>4-5                              |

**AA**  
**ARAFIX® HE DYES**

2%

| <div>AA</div> <div>ARAFIX® HE DYES</div> <div>2%</div> |                                                                                    | C I Name | Solubility in gpl at 30°C | Affinity | Reactivity | Fixation Temperature °C | Process Suitability |                |          |            | Dischargeability | Other Fastness               |                               | Light Fastness AATCC 16E |      |      | Post Fastness Properties |                                       |                   |                            |                                         |
|--------------------------------------------------------|------------------------------------------------------------------------------------|----------|---------------------------|----------|------------|-------------------------|---------------------|----------------|----------|------------|------------------|------------------------------|-------------------------------|--------------------------|------|------|--------------------------|---------------------------------------|-------------------|----------------------------|-----------------------------------------|
|                                                        |                                                                                    |          |                           |          |            |                         | Exhaust             | Cold Pad Batch | Printing | Continuous |                  | Washing Fastness ISO 105 C04 | Rubbing ISO 105/X12 Dry / Wet | 0.1%                     | 1.0% | 2.0% | Water ISO 105 E01        | Chlorinated Pool Water AATCC 162-2002 | Hydrogen Peroxide | Mercerizing (ISO 105 X 04) | Perspiration ISO 105 E04 Acid / Alkalia |
|                                                        |                                                                                    |          |                           |          |            |                         |                     |                |          |            |                  |                              |                               |                          |      |      |                          |                                       |                   |                            |                                         |
| RED HE8B                                               |   | R152     | 100                       | H        | L          | 80                      | S                   | NS             | NS       | NS         | Poor             | 4-5                          | 4<br>3                        | 2-3                      | 3    | 3    | 4                        | 4-5                                   | 4                 | 4                          | 4-5<br>4-5                              |
| BLUE HERD                                              |   | BL160    | 100                       | H        | H          | 80                      | HS                  | S              | NS       | NS         | Poor             | 4-5                          | 4<br>4                        | 3-4                      | 4    | 4    | 4-5                      | 3                                     | 3-4               | 4                          | 4-5<br>4-5                              |
| BLUE HEGN                                              |   | BL198    | 100                       | H        | H          | 80                      | HS                  | S              | NS       | NS         | Poor             | 4-5                          | 4<br>3                        | 3-4                      | 4    | 4    | 4-5                      | 1                                     | 3-4               | 4                          | 4-5<br>4                                |
| TURQUOISE BLUE HA                                      |   | BL71     | 100                       | M        | H          | 80                      | HS                  | S              | NS       | NS         | Poor             | 4-5                          | 4<br>3                        | 3-4                      | 4    | 4    | 4-5                      | 1                                     | 3-4               | 4                          | 4-5<br>4                                |
| GREEN HE4BD                                            |   | G19      | 80                        | H        | H          | 80                      | HS                  | LS             | NS       | NS         | Poor             | 4-5                          | 3-4<br>3                      | 3-4                      | 3-4  | 4    | 4-5                      | 4                                     | 3-4               | 4                          | 4-5<br>4-5                              |
| NAVY BLUE HER                                          |   | BL171    | 100                       | H        | H          | 80                      | HS                  | S              | NS       | NS         | Good             | 4-5                          | 3-4<br>3-4                    | 3                        | 3-4  | 3-4  | 4-5                      | 3                                     | 4                 | 4                          | 4-5<br>4-5                              |
| NAVY BLUE HE2R                                         |  | BL172    | 100                       | L        | M          | 60-80                   | S                   | S              | S        | NS         | Poor             | 4                            | 3-4<br>3                      | 3                        | 3-4  | 4    | 4                        | --                                    | 4                 | 2-3                        | 4-5<br>4-5                              |

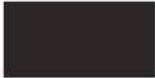
**AA**  
**ARAFIX® VS DYES**

2%

|                         |                                                                                    | C I Name | Solubility in gpl at 30°C | Affinity | Reactivity | Fixation Temperature °C | Process Suitability |                |          |            | Dischargeability | Other Fastness               |                               | Light Fastness AATCC 16E |      |      | Post Fastness Properties |                                       |                   |                                        |
|-------------------------|------------------------------------------------------------------------------------|----------|---------------------------|----------|------------|-------------------------|---------------------|----------------|----------|------------|------------------|------------------------------|-------------------------------|--------------------------|------|------|--------------------------|---------------------------------------|-------------------|----------------------------------------|
|                         |                                                                                    |          |                           |          |            |                         | Exhaust             | Cold Pad Batch | Printing | Continuous |                  | Washing Fastness ISO 105 C04 | Rubbing ISO 105/X12 Dry / Wet | 0.1%                     | 1.0% | 2.0% | Water ISO 105 E01        | Chlorinated Pool Water AATCC 162 2002 | Hydrogen Peroxide | Perspiration ISO 105 E04 Acid / Alkali |
| YELLOW FG               |   | Y42      | 100                       | H        | M          | 60                      | S                   | S              | S        | NS         | Good             | 5                            | 4-5<br>4                      | 3                        | 3-4  | 3-4  | 4-5                      | 2-3                                   | 4-5               | 5<br>5                                 |
| GOLDEN YELLOW RNL H/C   |   | O107     | 100                       | H        | M          | 60                      | S                   | HS             | S        | S          | Good             | 5                            | 5<br>4                        | 3-4                      | 3-4  | 4    | 5                        | 2-3                                   | 4-5               | 5<br>5                                 |
| BRILLIANT ORANGE 3R     |   | O16      | 80                        | M        | M          | 60                      | S                   | LS             | S        | LS         | Good             | 4-5                          | 5<br>3-4                      | 3                        | 3-4  | 3-4  | 4-5                      | 2-3                                   | 4-5               | 4-5<br>4-5                             |
| RED RB                  |   | R198     | 100                       | M        | M          | 60                      | S                   | S              | S        | S          | Moderate         | 4-5                          | 4-5<br>3-4                    | 3.5                      | 4    | 4    | 4-5                      | 3                                     | 4                 | 4-5<br>3-4                             |
| RED BB                  |   | R21      | 150                       | M        | M          | 60                      | S                   | S              | S        | S          | Good             | 4-5                          | 5<br>3-4                      | 3                        | 3-4  | 3-4  | 4-5                      | 2                                     | 4-5               | 4-5<br>4-5                             |
| RED BS H/C              |   | R111     | 100                       | M        | M          | 60                      | HS                  | S              | LS       | LS         | Moderate         | 4-5                          | 5<br>3-4                      | 2-3                      | 3    | 3    | 4-5                      | 2-3                                   | 3                 | 4-5<br>4-5                             |
| BRILLIANT VIOLET 5R H/C |  | V5       | 80                        | H        | M          | 60                      | S                   | S              | S        | LS         | Poor             | 4                            | 5<br>3-4                      | 3-4                      | 4    | 4    | 4-5                      | 3                                     | 2-3               | 4-5<br>3-4                             |

**AA**  
**ARAFIX® VS DYES**

2%

|                     |                                                                                    | C I Name | Solubility in gpl at 30°C | Affinity | Reactivity | Fixation Temperature °C | Process Suitability |                |          |            | Dischargeability | Other Fastness               |                               | Light Fastness AATCC 16E |      |      | Post Fastness Properties |                                       |                   |                                        |
|---------------------|------------------------------------------------------------------------------------|----------|---------------------------|----------|------------|-------------------------|---------------------|----------------|----------|------------|------------------|------------------------------|-------------------------------|--------------------------|------|------|--------------------------|---------------------------------------|-------------------|----------------------------------------|
|                     |                                                                                    |          |                           |          |            |                         | Exhaust             | Cold Pad Batch | Printing | Continuous |                  | Washing Fastness ISO 105 C04 | Rubbing ISO 105/X12 Dry / Wet | 0.1%                     | 1.0% | 2.0% | Water ISO 105 E01        | Chlorinated Pool Water AATCC 162/2002 | Hydrogen Peroxide | Perspiration ISO 105 E04 Acid / Alkali |
| TURQUOISE BLUE G    |   | BL21     | 80                        | H        | M          | 80                      | S                   | S              | S        | LS         | Poor             | 2-3                          | 3-4<br>2-3                    | 3                        | 3-4  | 3-4  | 3                        | 3-4                                   | 3                 | 4<br>4                                 |
| TURQUOISE BLUE H2GP |   | BL*      | 80                        | H        | M          | 80                      | S                   | S              | S        | LS         | Poor             | 2-3                          | 3-4<br>2-3                    | 3                        | 3-4  | 3-4  | 3                        | 3-4                                   | 3                 | 4<br>4                                 |
| BLUE BB             |   | BL220    | 100                       | H        | M          | 60                      | S                   | S              | S        | S          | Poor             | 4                            | 5<br>3-4                      | 4                        | 4-5  | 4-5  | 4                        | 3                                     | 4                 | 3-4<br>4                               |
| BROWN GR            |   | BR18     | 80                        | M        | M          | 60                      | S                   | S              | S        | S          | Good             | 3-4                          | 4-5<br>3-4                    | 3.5                      | 3.5  | 4    | 4                        | 2-3                                   | 3-4               | 4<br>4                                 |
| NAVY BLUE EGB       |   | BL250    | 100                       | L        | M          | 60                      | S                   | S              | S        | S          | Good             | 4-5                          | 4-5<br>3                      | 3                        | 3-4  | 4    | 4-5                      | 2-3                                   | 4                 | 4-5<br>4-5                             |
| BLACK RL            |   | B31      | 100                       | L        | L          | 60                      | S                   | S              | S        | S          | Poor             | 4                            | 4-5<br>3                      | 3.5                      | 4    | 4    | 4-5                      | 3                                     | 4                 | 5<br>5                                 |
| BLACK B 165%        |  | B5       | 250                       | H        | M          | 60                      | HS                  | HS             | S        | S          | Good             | 4                            | 4<br>3-4                      | 2-3                      | 3    | 3    | 4                        | 2                                     | 4                 | 4-5<br>4-5                             |



# ARAFIX® ME DYES

2%

|                  |                                                                                    | C I Name | Solubility in gpl at 30°C | Affinity | Reactivity | Fixation Temperature °C | Process Suitability |                |          |            | Dischargeability | Other Fastness               |                               | Light Fastness AATCC 16E |      |      | Post Fastness Properties |                                       |                   |                                        |
|------------------|------------------------------------------------------------------------------------|----------|---------------------------|----------|------------|-------------------------|---------------------|----------------|----------|------------|------------------|------------------------------|-------------------------------|--------------------------|------|------|--------------------------|---------------------------------------|-------------------|----------------------------------------|
|                  |                                                                                    |          |                           |          |            |                         | Exhaust             | Cold Pad Batch | Printing | Continuous |                  | Washing Fastness ISO 105 C04 | Rubbing ISO 105/X12 Dry / Wet | 0.1%                     | 1.0% | 2.0% | Water ISO 105 E01        | Chlorinated Pool Water AATCC 162-2002 | Hydrogen Peroxide | Perspiration ISO 105 E04 Acid / Alkali |
| YELLOW ME4GL H/C |   | Y186     | 80                        | H        | L          | 60                      | LS                  | S              | S        | NS         | Moderate         | 4-5                          | 4-5<br>4-5                    | 4                        | 4    | 4    | 4-5                      | 3                                     | 4-5               | 4-5<br>4-5                             |
| YELLOW MERL H/C  |   | Y145     | 100                       | H        | M          | 60                      | HS                  | HS             | S        | S          | Moderate         | 4-5                          | 4-5<br>3-4                    | 4                        | 4    | 4    | 4                        | 4-5                                   | 4-5               | 4<br>4                                 |
| ORANGE ME2RL H/C |   | O122     | 80                        | H        | M          | 60                      | S                   | NS             | LS       | LS         | Moderate         | 4-5                          | 4<br>3-4                      | 2-3                      | 3    | 3-4  | 4                        | 4-5                                   | 5                 | 4<br>4                                 |
| RED ME3BL H/C    |   | R194     | 100                       | H        | M          | 60                      | S                   | S              | S        | S          | Moderate         | 4-5                          | 4<br>3-4                      | 3-4                      | 4    | 4    | 4                        | 4                                     | 4-5               | 4-5<br>4-5                             |
| RED 3GXL         |   | R223     | 100                       | M        | M          | 60                      | HS                  | HS             | S        | HS         | Good             | 4-5                          | 4<br>3-4                      | 3-4                      | 4    | 4    | 4                        | 4                                     | 4                 | 4-5<br>4-5                             |
| RED ME4BL        |   | R195     | 150                       | M        | M          | 60                      | HS                  | HS             | S        | S          | Poor             | 4-5                          | 4<br>4                        | 3                        | 3-4  | 4    | 4                        | 4                                     | 1                 | 4-5<br>4-5                             |
| RED MERK         |  | R222A    | 80                        | H        | M          | 60                      | HS                  | HS             | S        | S          | Poor             | 4-5                          | 4<br>4                        | 3-4                      | 4    | 4-5  | 4                        | 4                                     | 3-4               | 4-5<br>4-5                             |

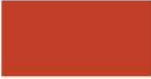


## ARAFIX® ME DYES

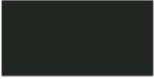
2%

|                    |                                                                                    | C I Name | Solubility in gpl at 30°C | Affinity | Reactivity | Fixation Temperature °C | Process Suitability |                |          |            | Dischargeability | Other Fastness               |                               | Light Fastness AATCC 16E |      |      | Post Fastness Properties |                                       |                   |                                        |
|--------------------|------------------------------------------------------------------------------------|----------|---------------------------|----------|------------|-------------------------|---------------------|----------------|----------|------------|------------------|------------------------------|-------------------------------|--------------------------|------|------|--------------------------|---------------------------------------|-------------------|----------------------------------------|
|                    |                                                                                    |          |                           |          |            |                         | Exhaust             | Cold Pad Batch | Printing | Continuous |                  | Washing Fastness ISO 105 C04 | Rubbing ISO 105/X12 Dry / Wet | 0.1%                     | 1.0% | 2.0% | Water ISO 105 E01        | Chlorinated Pool Water AATCC 162-2002 | Hydrogen Peroxide | Perspiration ISO 105 E04 Acid / Alkali |
| RED ME6BL          |   | R250     | 80                        | M        | M          | 60                      | S                   | LS             | NS       | S          | Poor             | 4-5                          | 4<br>4                        | 3                        | 3-4  | 4    | 4                        | 4                                     | 4-5               | 4-5<br>4-5                             |
| BLUE MERF 150%     |   | BL221    | 100                       | H        | L          | 60                      | HS                  | S              | S        | LS         | Moderate         | 4-5                          | 4<br>4                        | 4                        | 4    | 4    | 4                        | 1                                     | 2                 | 4-5<br>4-5                             |
| BLUE ME2RL         |   | BL248    | 100                       | M        | M          | 60                      | S                   | NS             | NS       | S          | Poor             | 3-4                          | 4<br>3-4                      | 3                        | 3    | 3-4  | 3-4                      | 2-3                                   | 4                 | 4<br>4                                 |
| BLUE ME2GL         |   | BL194    | 100                       | M        | M          | 60                      | HS                  | S              | S        | S          | Poor             | 4-5                          | 4<br>4                        | 3                        | 3    | 3-4  | 4                        | 4                                     | 4-5               | 4-5<br>4-5                             |
| NAVY BLUE 3GXL     |   | BL223    | 200                       | M        | M          | 60                      | HS                  | S              | S        | S          | Good             | 4-5                          | 4<br>4                        | 3                        | 3-4  | 3-4  | 4                        | 4                                     | 4-5               | 4-5<br>4-5                             |
| NAVY BLUE MEBL H/C |   | BL222    | 100                       | M        | M          | 60                      | HS                  | S              | S        | S          | Good             | 4-5                          | 4<br>4                        | 3                        | 3    | 3-4  | 4                        | 1                                     | 2                 | 4-5<br>4-5                             |
| GREEN ME4BL        |  | G*       | 100                       | H        | M          | 60                      | HS                  | S              | S        | NS         | Moderate         | 4                            | 4<br>3-4                      | 4                        | 4    | 4    | 4                        | 3-4                                   | 1                 | 4<br>4                                 |

  
**ARAFIX® iED DYES**  
 2%

|                  |                                                                                    | Solubility in gpl at 30°C | Affinity | Reactivity | Fixation Temperature °C | Process Suitability |                |          |            | Dischargeability | Other Fastness               |                               | Light Fastness AATCC 16E |      |      | Post Fastness Properties |                                       |                   |                                        |
|------------------|------------------------------------------------------------------------------------|---------------------------|----------|------------|-------------------------|---------------------|----------------|----------|------------|------------------|------------------------------|-------------------------------|--------------------------|------|------|--------------------------|---------------------------------------|-------------------|----------------------------------------|
|                  |                                                                                    |                           |          |            |                         | Exhaust             | Cold Pad Batch | Printing | Continuous |                  | Washing Fastness ISO 105 C04 | Rubbing ISO 105/X12 Dry / Wet | 0.1%                     | 1.0% | 2.0% | Water ISO 105 E01        | Chlorinated Pool Water AATCC 162/2002 | Hydrogen Peroxide | Perspiration ISO 105 E04 Acid / Alkali |
| LEMON YELLOW S3G |   | 80                        | H        | L          | 60                      | LS                  | S              | S        | NS         | Moderate         | 4-5                          | 4-5<br>4-5                    | 4                        | 4    | 4    | 4-5                      | 3                                     | 4-5               | 4-5<br>4-5                             |
| YELLOW S3R       |   | 150                       | H        | L          | 60                      | HS                  | S              | S        | S          | Poor             | 4                            | 4-5<br>3-4                    | 3                        | 4    | 4    | 4                        | 4-5                                   | 4-5               | 4<br>4                                 |
| ORANGE W3R       |   | 150                       | H        | M          | 60                      | HS                  | HS             | S        | S          | Good             | 4-5                          | 4-5<br>4                      | 3                        | 3-4  | 4    | 4-5                      | 3-4                                   | 5                 | 4-5<br>4-5                             |
| DEEP ORANGE S4R  |   | 80                        | H        | M          | 60                      | S                   | NS             | LS       | LS         | Moderate         | 4-5                          | 4<br>3-4                      | 2-3                      | 3    | 3-4  | 3-4                      | 3-4                                   | 4                 | 4<br>4                                 |
| RED S2B          |   | 200                       | H        | M          | 60                      | HS                  | HS             | S        | S          | Moderate         | 4-5                          | 4<br>4                        | 3                        | 3-4  | 4    | 4-5                      | 4                                     | 4                 | 4-5<br>4                               |
| DEEP RED SB      |   | 200                       | H        | M          | 60                      | HS                  | HS             | S        | S          | Moderate         | 4                            | 4<br>4                        | 3                        | 3-4  | 3-4  | 4                        | 4                                     | 4                 | 4-5<br>4                               |
| CHERRY RED SD    |  | 100                       | H        | M          | 60                      | HS                  | HS             | S        | S          | Good             | 4                            | 4-5<br>3-4                    | 3                        | 3-4  | 3-4  | 4                        | 3                                     | 3-4               | 4-5<br>4-5                             |

  
**ARAFIX® iED DYES**  
 2%

|               |                                                                                    | Solubility in gpl at 30°C | Affinity | Reactivity | Fixation Temperature °C | Process Suitability |                |          |            | Dischargeability | Other Fastness               |                               | Light Fastness AATCC 16E |      |      | Post Fastness Properties |                                       |                   |                                        |
|---------------|------------------------------------------------------------------------------------|---------------------------|----------|------------|-------------------------|---------------------|----------------|----------|------------|------------------|------------------------------|-------------------------------|--------------------------|------|------|--------------------------|---------------------------------------|-------------------|----------------------------------------|
|               |                                                                                    |                           |          |            |                         | Exhaust             | Cold Pad Batch | Printing | Continuous |                  | Washing Fastness ISO 105 C04 | Rubbing ISO 105/X12 Dry / Wet | 0.1%                     | 1.0% | 2.0% | Water ISO 105 E01        | Chlorinated Pool Water AATCC 162-2002 | Hydrogen Peroxide | Perspiration ISO 105 E04 Acid / Alkali |
| RUBY S3B      |   | 150                       | M        | M          | 60                      | HS                  | HS             | S        | S          | Poor             | 4-5                          | 4<br>4                        | 3                        | 3-4  | 3-4  | 4-5                      | 4                                     | 3                 | 4-5<br>4-5                             |
| DARK BLUE SGL |   | 150                       | H        | L          | 60                      | HS                  | LS             | S        | LS         | Moderate         | 4-5                          | 4-5<br>4                      | 3-4                      | 4    | 4    | 4-5                      | 4                                     | 3                 | 4-5<br>4-5                             |
| NAVY SGL      |   | 150                       | H        | H          | 60                      | HS                  | HS             | S        | S          | Good             | 4                            | 4-5<br>3-4                    | 3                        | 3-4  | 3-4  | 4                        | 5                                     | 4                 | 5<br>5                                 |
| SUPER BLACK R |   | 200                       | H        | H          | 60                      | HS                  | HS             | S        | S          | Good             | 4                            | 4-5<br>3-4                    | --                       | 3    | 3-4  | 4                        | 3                                     | 4                 | 4-5<br>4-5                             |
| SUPER BLACK G |   | 200                       | H        | H          | 60                      | HS                  | HS             | S        | S          | Good             | 4                            | 4-5<br>3-4                    | --                       | 3    | 3-4  | 4                        | 3                                     | 4                 | 4-5<br>4-5                             |
| BLACK NN      |   | 200                       | H        | H          | 60                      | HS                  | HS             | S        | S          | Good             | 4                            | 4-5<br>3-4                    | --                       | 3    | 3-4  | 4                        | 3                                     | 4                 | 4-5<br>4-5                             |
| BLACK WF      |  | 200                       | H        | H          | 60                      | HS                  | HS             | S        | S          | Good             | 4                            | 4-5<br>3-4                    | --                       | 3    | 3-4  | 4                        | 3                                     | 4                 | 4-5<br>4-5                             |



## ARAFIX® BLACK DYES

2%

| AA<br>ARAFIX® BLACK DYES<br><br>2% |  | Solubility in gpl at 30°C | Affinity | Reactivity | Fixation Temperature °C | Process Suitability |                |          |            | Dischargeability | Other Fastness               |                               | Light Fastness AATCC 16E |      |      | Post Fastness Properties |                                       |                   |                                        |
|------------------------------------|--|---------------------------|----------|------------|-------------------------|---------------------|----------------|----------|------------|------------------|------------------------------|-------------------------------|--------------------------|------|------|--------------------------|---------------------------------------|-------------------|----------------------------------------|
|                                    |  |                           |          |            |                         | Exhaust             | Cold Pad Batch | Printing | Continuous |                  | Washing Fastness ISO 105 C04 | Rubbing ISO 105/X12 Dry / Wet | 0.1%                     | 1.0% | 2.0% | Water ISO 105 E01        | Chlorinated Pool Water AATCC 162-2002 | Hydrogen Peroxide | Perspiration ISO 105 E04 Acid / Alkali |
|                                    |  |                           |          |            |                         |                     |                |          |            |                  |                              |                               |                          |      |      |                          |                                       |                   |                                        |
| BLACK B                            |  | 200                       | H        | M          | 60                      | S                   | S              | S        | S          | Good             | 4                            | 4<br>4                        | 3                        | 3-4  | 4    | 4                        | 2                                     | 4                 | 4<br>4-5                               |
| NAVY JB                            |  | 200                       | H        | M          | 60                      | S                   | S              | S        | S          | Good             | 4                            | 4<br>4                        | 3                        | 3-4  | 4    | 4                        | 2                                     | 4                 | 4<br>4-5                               |
| BLACK B CRUDE                      |  | 200                       | H        | M          | 60                      | S                   | S              | S        | S          | Good             | 4                            | 4<br>4                        | 3                        | 3-4  | 4    | 4                        | 2                                     | 4                 | 4<br>4-5                               |
| BLACK B H/C                        |  | 200                       | H        | M          | 60                      | S                   | S              | S        | S          | Good             | 4                            | 4<br>4                        | 3                        | 3-4  | 4    | 4                        | 2                                     | 4                 | 4<br>4-5                               |
| BLACK WNN                          |  | 200                       | H        | M          | 60                      | HS                  | HS             | S        | S          | Good             | 4                            | 4<br>3-4                      | --                       | --   | 3    | 3                        | 2                                     | 3-4               | 4<br>4-5                               |
| BLACK DN                           |  | 200                       | H        | M          | 60                      | HS                  | HS             | S        | S          | Good             | 4                            | 4<br>3-4                      | --                       | --   | 3-4  | 3                        | 2                                     | 3-4               | 4<br>4-5                               |
| BLACK TNN                          |  | 200                       | H        | M          | 60                      | HS                  | HS             | S        | S          | Good             | 4                            | 4<br>3-4                      | --                       | --   | 3-4  | 3                        | 2                                     | 3-4               | 4<br>4-5                               |

  
**ARAFIX® BLACK DYES**  
 2%

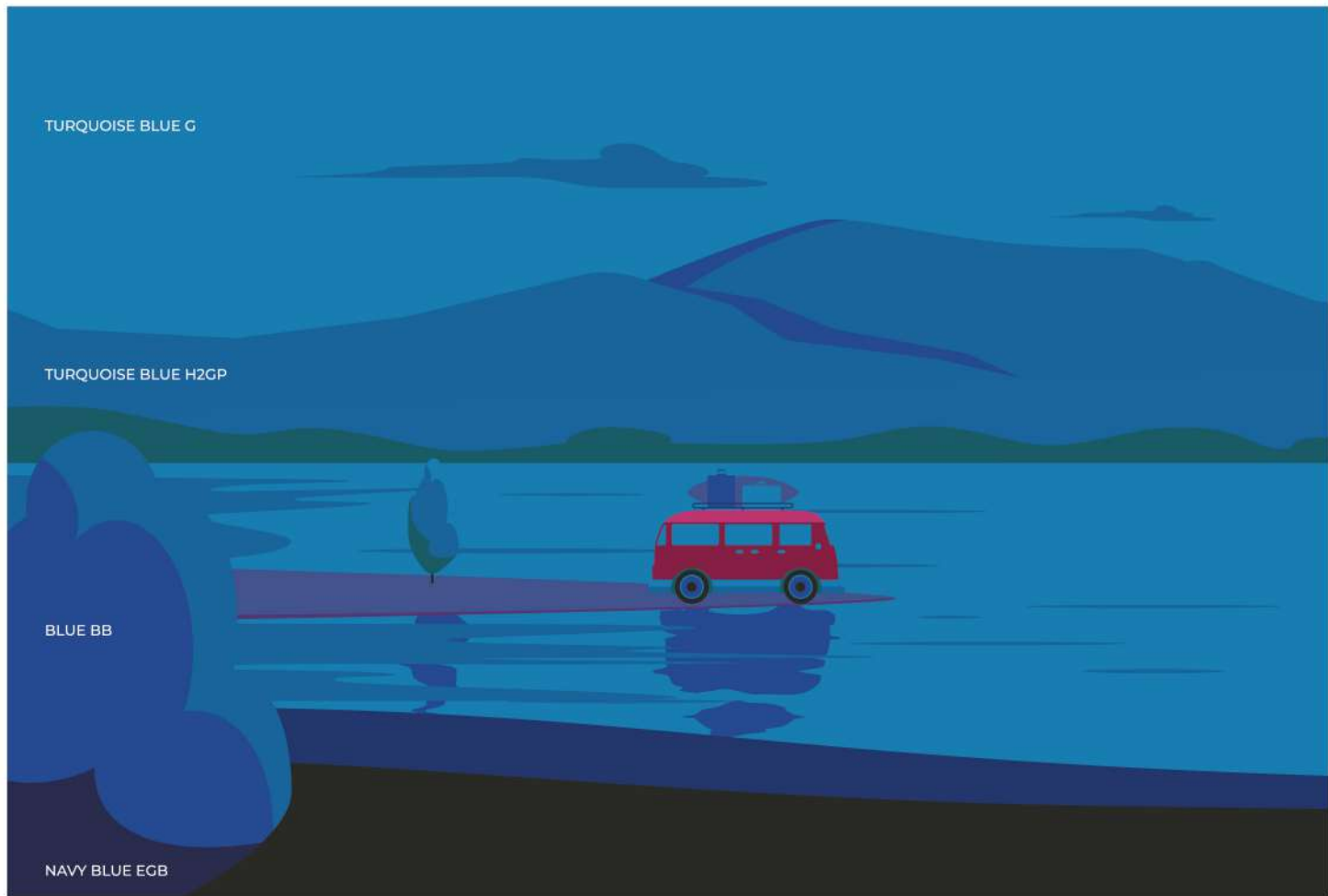
|               |                                                                                   | Solubility in gpl at 30°C | Affinity | Reactivity | Fixation Temperature °C | Process Suitability |                |          |            | Dischargeability | Other Fastness               |                               | Light Fastness AATCC 16E |      |      | Post Fastness Properties |                                       |                   |                                        |
|---------------|-----------------------------------------------------------------------------------|---------------------------|----------|------------|-------------------------|---------------------|----------------|----------|------------|------------------|------------------------------|-------------------------------|--------------------------|------|------|--------------------------|---------------------------------------|-------------------|----------------------------------------|
|               |                                                                                   |                           |          |            |                         | Exhaust             | Cold Pad Batch | Printing | Continuous |                  | Washing Fastness ISO 105 C04 | Rubbing ISO 105/X12 Dry / Wet | 0.1%                     | 1.0% | 2.0% | Water ISO 105 E01        | Chlorinated Pool Water AATCC 162-2002 | Hydrogen Peroxide | Perspiration ISO 105 E04 Acid / Alkali |
| SUPER BLACK R |  | 200                       | H        | M          | 60                      | S                   | S              | S        | S          | Good             | 4                            | 4<br>4                        | 3                        | 3-4  | 4    | 4                        | 2                                     | 4                 | 4<br>4-5                               |
| SUPER BLACK G |  | 200                       | H        | M          | 60                      | S                   | S              | S        | S          | Good             | 4                            | 4<br>4                        | 3                        | 3-4  | 4    | 4                        | 2                                     | 4                 | 4<br>4-5                               |
| DEEP BLACK NG |  | 200                       | H        | M          | 60                      | S                   | S              | S        | S          | Good             | 4                            | 4<br>4                        | 3                        | 3-4  | 4    | 4                        | 2                                     | 4                 | 4<br>4-5                               |
| BLACK WM      |  | 200                       | H        | M          | 60                      | S                   | S              | S        | S          | Good             | 4                            | 4<br>4                        | 3                        | 3-4  | 4    | 4                        | 2                                     | 4                 | 4<br>4-5                               |
| BLACK GDNN    |  | 200                       | H        | M          | 60                      | S                   | S              | S        | S          | Good             | 4                            | 4<br>4                        | 3                        | 3-4  | 4    | 4                        | 2                                     | 4                 | 4<br>4-5                               |
| BLACK CX      |  | 200                       | H        | M          | 60                      | S                   | S              | S        | S          | Good             | 4                            | 4<br>4                        | 3                        | 3-4  | 4    | 4                        | 2                                     | 4                 | 4<br>4-5                               |

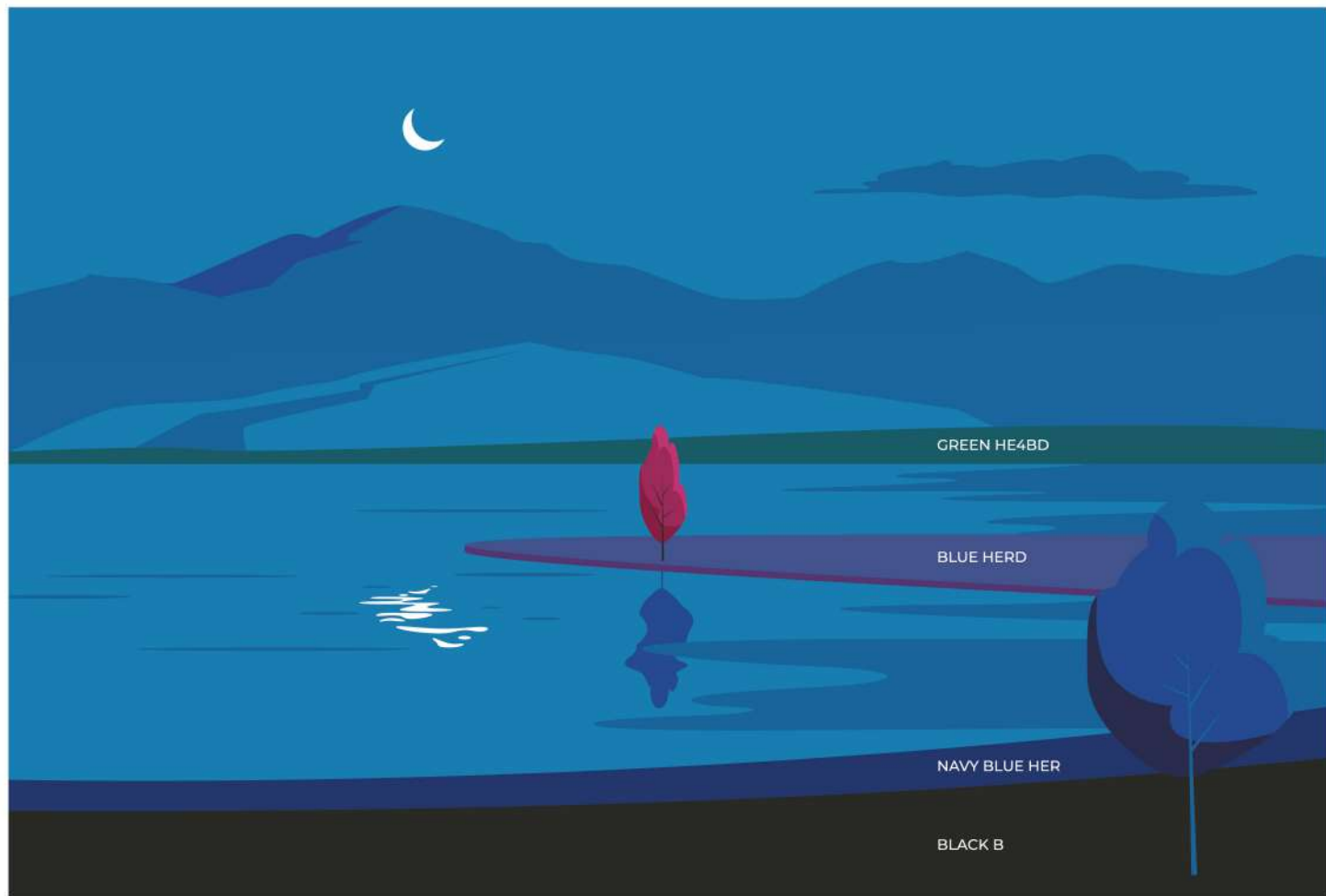
TURQUOISE BLUE G

TURQUOISE BLUE H2GP

BLUE BB

NAVY BLUE EGB





GREEN HE4BD

BLUE HERD

NAVY BLUE HER

BLACK B



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