



Innovative Textile Dyestuff

Scheco®cid  
Acid Metal Complex Dyes



| Dye Name                                           |                        |                |
|----------------------------------------------------|------------------------|----------------|
| Color Shade                                        |                        |                |
| Dyeing Depth o.w.f.%                               | 1/1 SD                 |                |
| Fastness to Light ISO 105-B02                      | 1/1 SD                 |                |
| Fastness to Water(Severe Treatment)<br>ISO 105-E01 | Without Aftertreatment | CH<br>PA<br>CO |
|                                                    | With Aftertreatment    | CH<br>PA<br>CO |
|                                                    | Without Aftertreatment | CH<br>PA<br>CO |
|                                                    | With Aftertreatment    | CH<br>PA<br>CO |
| Fastness to Perspiration(Acid)<br>ISO 105-E04      | Without Aftertreatment | CH<br>PA<br>CO |
|                                                    | With Aftertreatment    | CH<br>PA<br>CO |
|                                                    | Without Aftertreatment | CH<br>PA<br>CO |
|                                                    | With Aftertreatment    | CH<br>PA<br>CO |
| Fastness to Perspiration(Alkaline)<br>ISO 105-E04  | Without Aftertreatment | CH<br>PA<br>CO |
|                                                    | With Aftertreatment    | CH<br>PA<br>CO |
|                                                    | Without Aftertreatment | CH<br>PA<br>CO |
|                                                    | With Aftertreatment    | CH<br>PA<br>CO |
| Fastness to Washing 50°C<br>ISO 105-C06            | Without Aftertreatment | CH<br>PA<br>CO |
|                                                    | With Aftertreatment    | CH<br>PA<br>CO |
|                                                    | Without Aftertreatment | CH<br>PA<br>CO |
|                                                    | With Aftertreatment    | CH<br>PA<br>CO |
| Fastness to Chlorinated Water<br>ISO 105-E03       | Without Aftertreatment | CH             |
|                                                    | With Aftertreatment    | CH             |
| Fastness to Crocking<br>ISO 105-X12                | Dry                    |                |
|                                                    | Wet                    |                |

| Schecocid    |           |              |          |             |           |              |     |  |
|--------------|-----------|--------------|----------|-------------|-----------|--------------|-----|--|
| Flavine M-7G | Yellow FG | Yellow M-4GL | Yellow R | Yellow A-3R | Yellow 4R | Orange M-GSN |     |  |
| 1.0          | 1.5       | 1.5          | 1.5      | 2.0         | 1.5       | 1.5          |     |  |
| 3-4          | 6-7       | 7            | 5-6      | 6-7         | 6-7       | 5            |     |  |
| 5            | 5         | 5            | 4-5      | 5           | 4-5       | 5            |     |  |
| 4            | 4-5       | 5            | 4        | 4-5         | 4-5       | 5            |     |  |
| 5            | 5         | 5            | 4-5      | 5           | 4-5       | 5            |     |  |
| 5            | 5         | 5            | 5        | 5           | 5         | 5            |     |  |
| 5            | 5         | 5            | 5        | 5           | 5         | 5            |     |  |
| 5            | 5         | 5            | 4-5      | 5           | 5         | 5            |     |  |
| 5            | 5         | 5            | 5        | 5           | 5         | 5            |     |  |
| 4-5          | 5         | 5            | 4-5      | 4-5         | 5         | 5            |     |  |
| 2-3          | 4         | 5            | 4        | 5           | 4-5       | 5            |     |  |
| 3-4          | 5         | 5            | 4-5      | 5           | 4-5       | 5            |     |  |
| 4-5          | 5         | 5            | 5        | 5           | 5         | 5            |     |  |
| 4-5          | 5         | 5            | 5        | 5           | 5         | 5            |     |  |
| 4-5          | 5         | 5            | 5        | 5           | 5         | 5            |     |  |
| 4-5          | 5         | 5            | 5        | 5           | 5         | 5            |     |  |
| 4y           | 5         | 5            | 5        | 5           | 4-5       | 4-5          | 5   |  |
| 3-4          | 5         | 4            | 4-5      | 5           | 4-5       | 4            | 4-5 |  |
| 4            | 5         | 4-5          | 5        | 5           | 5         | 4-5          | 5   |  |
| 4-5          | 5         | 5            | 5        | 5           | 5         | 5            | 5   |  |
| 4-5          | 5         | 5            | 5        | 5           | 5         | 4-5          | 5   |  |
| 4-5          | 5         | 5            | 5        | 5           | 5         | 5            | 5   |  |
| 4y           | 5         | 5            | 5        | 5           | 4-5       | 4            | 5   |  |
| 3-4          | 4-5       | 3-4          | 4        | 5           | 4-5       | 3-4          | 4   |  |
| 3-4          | 5         | 4            | 4-5      | 5           | 5         | 3-4          | 4-5 |  |
| 4-5          | 5         | 5            | 5        | 5           | 5         | 4-5          | 5   |  |
| 4-5          | 5         | 4-5          | 5        | 5           | 5         | 4-5          | 5   |  |
| 4-5          | 5         | 4-5          | 5        | 5           | 5         | 4-5          | 5   |  |
| 3-4          | 5         | 4-5          | 4-5      | 4-5         | 4-5       | 4            | 4-5 |  |
| 4-5          | 4-5       | 4-5          | 4-5      | 4-5         | 4-5       | 4-5          | 4-5 |  |
| 4-5          | 5         | 4-5          | 5        | 5           | 5         | 4            | 5   |  |
| 4-5          | 5         | 5            | 5        | 5           | 5         | 4-5          | 5   |  |
| 5            | 5         | 5            | 5        | 5           | 5         | 5            | 5   |  |
| 5            | 5         | 5            | 5        | 5           | 5         | 5            | 5   |  |
| 2-3          | 3         | 3-4          | 3-4      | 4           | 3-4       | 3-4          |     |  |
| 3-4r         | 3-4r      | 4-5r         | 4-5      | 4-5         | 4-5       | 4-5          |     |  |
| 5            | 5         | 5            | 5        | 5           | 5         | 5            |     |  |
| 4-5          | 4-5       | 5            | 4-5      | 4-5         | 4-5       | 5            |     |  |

| Schecocid      |         |         |           |           |        |          |              |  |
|----------------|---------|---------|-----------|-----------|--------|----------|--------------|--|
| Rhodamine M-BN | Red M-R | Red FRL | Red A-2FR | Red M-GWN | Red BB | Red M-3B | Violet M-RWN |  |
| 1.0            | 1.0     | 1.5     | 1.5       | 1.8       | 1.0    | 1.0      | 1.0          |  |
| 2-3            | 4-5     | 6-7     | 5-6       | 5         | 4-5    | 4-5      | 6-7          |  |
| 4-5            | 4-5     | 5       | 5         | 4-5       | 4-5    | 5        | 5            |  |
| 4              | 4-5     | 4       | 4-5       | 4-5       | 4-5    | 4-5      | 4-5          |  |
| 5              | 4-5     | 4-5     | 5         | 5         | 5      | 4-5      | 5            |  |
| 4-5            | 5       | 5       | 5         | 5         | 5      | 5        | 5            |  |
| 4-5            | 5       | 5       | 5         | 5         | 5      | 5        | 5            |  |
| 4-5            | 5       | 5       | 5         | 5         | 5      | 5        | 5            |  |
| 4y             | 5       | 5       | 5         | 5         | 4-5    | 4-5      | 5            |  |
| 3-4            | 5       | 4       | 4-5       | 5         | 4-5    | 4        | 4-5          |  |
| 4              | 5       | 4-5     | 5         | 5         | 5      | 4-5      | 5            |  |
| 4-5            | 5       | 5       | 5         | 5         | 5      | 5        | 5            |  |
| 4-5            | 5       | 5       | 5         | 5         | 5      | 4-5      | 5            |  |
| 4-5            | 5       | 5       | 5         | 5         | 5      | 5        | 5            |  |
| 4y             | 5       | 5       | 5         | 5         | 4-5    | 4        | 5            |  |
| 3-4            | 4-5     | 3-4     | 4         | 5         | 4-5    | 3-4      | 4            |  |
| 3-4            | 5       | 4       | 4-5       | 5         | 5      | 3-4      | 4-5          |  |
| 4-5            | 5       | 5       | 5         | 5         | 5      | 4-5      | 5            |  |
| 4-5            | 5       | 4-5     | 5         | 5         | 5      | 4-5      | 5            |  |
| 4-5            | 5       | 4-5     | 5         | 5         | 5      | 4-5      | 5            |  |
| 3-4            | 5       | 4-5     | 4-5       | 4-5       | 4-5    | 4        | 4-5          |  |
| 4-5            | 4-5     | 4-5     | 4-5       | 4-5       | 4-5    | 4-5      | 4-5          |  |
| 4-5            | 5       | 4-5     | 5         | 5         | 5      | 4        | 5            |  |
| 4-5            | 5       | 5       | 5         | 5         | 5      | 4-5      | 5            |  |
| 5              | 5       | 5       | 5         | 5         | 5      | 5        | 5            |  |
| 5              | 5       | 5       | 5         | 5         | 5      | 4-5      | 5            |  |
| 2-3            | 4-5     | 3-4     | 3-4       | 4         | 4-5    | 3-4      | 2-3          |  |
| 3-4            | 5       | 4-5     | 4-5       | 4-5       | 5      | 4-5      | 4            |  |
| 5              | 5       | 4-5     | 5         | 5         | 5      | 4-5      | 5            |  |
| 4-5            | 5       | 4-5     | 4-5       | 5         | 5      | 4-5      | 4-5          |  |

| Schecocid   |            |                |           |           |          |         |           |  |
|-------------|------------|----------------|-----------|-----------|----------|---------|-----------|--|
| Green M-6GW | Green M-BW | Turquoise M-5G | Blue M-2G | Blue A-FN | Blue BRL | Blue AR | Blue M-2R |  |
| 2.0         | 1.5        | 1.5            | 2.0       | 1.5       | 1.0      | 1.5     | 2.0       |  |
| 6-7         | 6y         | 5              | 6         | 6-7       | 6-7      | 6       | 6-7       |  |
| 5           | 4-5        | 4-5            | 5         | 5         | 5        | 5       | 5         |  |
| 5           | 5          | 4-5            | 4-5       | 4         | 4        | 4-5     | 5         |  |
| 5           | 5          | 5              | 5         | 4-5       | 4        | 5       | 5         |  |
| 5           | 5          | 5              | 5         | 5         | 5        | 5       | 5         |  |
| 5           | 5          | 5              | 5         | 5         | 5        | 5       | 5         |  |
| 5           | 5          | 5              | 5         | 5         | 5        | 5       | 5         |  |
| 4-5         | 4-5        | 4b             | 4-5       | 5         | 5        | 4-5     | 4-5       |  |
| 5           | 4-5        | 4-5            | 4-5       | 4         | 3-4      | 4-5     | 4-5       |  |
| 5           | 5          | 5              | 5         | 5         | 4        | 5       | 5         |  |
| 5           | 4-5        | 4-5            | 5         | 5         | 5        | 5       | 5         |  |
| 5           | 5          | 5              | 5         | 5         | 5        | 5       | 5         |  |
| 5           | 5          | 5              | 5         | 5         | 5        | 5       | 5         |  |
| 4-5         | 4-5        | 3-4b           | 4-5       | 5         | 5        | 4       | 5         |  |
| 4-5         | 4-5        | 4-5            | 4-5       | 3-4       | 3-4      | 4-5     | 5         |  |
| 5           | 4-5        | 4              | 5         | 4         | 3-4      | 4-5     | 4-5       |  |
| 5           | 5          | 4b             | 5         | 5         | 5        | 4-5     | 5         |  |
| 5           | 5          | 5              | 5         | 4-5       | 4-5      | 5       | 5         |  |
| 5           | 5          | 5              | 5         | 5         | 5        | 5       | 5         |  |
| 4-5         | 4-5        | 4b             | 4-5       | 4-5       | 5        | 4       | 5         |  |
| 4           | 4-5        | 4-5            | 4-5       | 4-5       | 4        | 4       | 5         |  |
| 5           | 5          | 4-5            | 4-5       | 4-5       | 4-5      | 4-5     | 5         |  |
| 5           | 5          | 4-5b           | 5         | 5         | 5        | 4-5     | 5         |  |
| 4-5         | 5          | 5              | 5         | 5         | 5        | 4-5     | 5         |  |
| 5           | 5          | 5              | 5         | 5         | 5        | 5       | 5         |  |
| 4           | 4          | 3              | 4         | 2-3y      | 2-3      | 4-5     | 4-5       |  |
| 4-5         | 4-5        | 3-4            | 4-5       | 4-5y      | 4        | 5       | 5         |  |
| 5           | 5          | 4-5            | 5         | 5         | 4-5      | 5       | 5         |  |
| 5           | 4-5        | 4              | 5         | 5         | 4-5      | 4-5     | 5         |  |

| Schecomplex |              |              |         |           |               |                 |             |  |
|-------------|--------------|--------------|---------|-----------|---------------|-----------------|-------------|--|
| Yellow KGLN | Yellow NHF-S | Orange NHF-S | Red SRL | Red NHF-S | Bordeaux 2S-B | Red Brown NHF-S | Brown NHF-S |  |
| 1.5         | 2.0          | 1.5          | 1.5     | 2.0       | 1.5           | 1.5             | 1.5         |  |
| 7           | 7            | 5-6          | 6       | 7         | 5-6           | 6-7             | 6-7         |  |
| 5           | 4-5          | 4-5          | 4-5     | 4-5       | 4-5           | 4-5             | 4-5         |  |
| 4-5         | 4-5          | 4-5          | 4-5     | 4-5       | 4-5           | 4-5             | 4-5         |  |
| 5           | 4-5          | 4-5          | 4-5     | 4-5       | 4-5           | 4-5             | 4-5         |  |
| 5           | 5            | 5            | 4-5     | 4-5       | 5             | 5               | 5           |  |
| 5           | 5            | 5            | 4-5     | 4-5       | 5             | 5               | 5           |  |
| 5           | 5            | 5            | 4-5     | 4-5       | 5             | 5               | 5           |  |
| 5           | 4-5          | 4-5          | 4-5     | 4-5       | 4-5           | 4-5             | 4-5         |  |
| 4-5         | 4-5          | 4-5          | 4-5     | 4-5       | 4-5           | 4-5             | 4-5         |  |
| 5           | 4-5          | 4-5          | 4-5     | 4-5       | 4-5           | 4-5             | 4-5         |  |
| 5           | 5            | 5            | 4-5     | 4-5       | 5             | 5               | 5           |  |
| 5           | 5            | 5            | 4-5     | 4-5       | 5             | 5               | 5           |  |
| 5           | 5            | 5            | 4-5     | 4-5       | 5             | 5               | 5           |  |
| 5           | 4-5          | 4-5          | 4-5     | 4-5       | 4-5           | 4-5             | 4-5         |  |
| 4-5         | 4-5          | 4-5          | 4-5     | 4-5       | 4-5           | 4-5             | 4-5         |  |
| 4-5         | 4-5          | 4-5          | 4-5     | 4-5       | 4-5           | 4-5             | 4-5         |  |
| 5           | 5            | 5            | 5       | 5         | 5             | 5               | 5           |  |
| 5           | 5            | 5            | 5       | 5         | 5             | 5               | 5           |  |
| 5           | 5            | 5            | 5       | 5         | 5             | 5               | 5           |  |
| 5           | 5            | 5            | 5       | 5         | 5             | 5               | 5           |  |
| 5           | 5            | 5            | 5       | 5         | 5             | 5               | 5           |  |
| 5           | 5            | 5            | 5       | 5         | 5             | 5               | 5           |  |
| 4           | 3            | 3            | 2-3     | 3         | 2-3           | 4               | 3           |  |
| 4-5         | 3-4          | 3-4          | 3-4     | 3-4       | 3-4           | 4-5             | 3-4         |  |
| 4-5         | 5            | 5            | 4-5     | 5         | 4-5           | 4-5             | 5           |  |
| 4-5         | 5            | 5            | 4-5     | 4-5       | 4-5           | 4-5             | 5           |  |

| Schecoset  |           |                  |           |       |        |            |         |  |
|------------|-----------|------------------|-----------|-------|--------|------------|---------|--|
| Yellow 4GN | Yellow 2R | Golden Yellow MR | Orange RN | Red G | Red 2B | Bordeaux B | Brown B |  |
| 1.5        | 2.0       | 1.5              | 1.5       | 1.2   | 2.0    | 1.5        | 1.5     |  |
| 5-6        | 7         | 6-7              | 6         | 6-7   | 7-8    | 5-6        | 6-7     |  |
| 4-5        | 4-5       | 5                | 4-5       | 5     | 5      | 5          | 4-5     |  |
| 4-5        | 4-5       | 5                | 4-5       | 4-5   | 5      | 5          | 5       |  |
| 5          | 5         | 5                | 5         | 5     | 5      | 5          | 4-5     |  |
| 5          | 5         | 5                | 5         | 5     | 5      | 5          | 5       |  |
| 5          | 5         | 5                | 5         | 5     | 5      | 5          | 5       |  |
| 5          | 5         | 5                | 5         | 5     | 5      | 5          | 5       |  |
| 4-5        | 4-5       | 5                | 4-5       | 4-5   | 5      | 5          | 4-5     |  |
| 4-5        | 4-5       | 5                | 5         | 4-5   | 5      | 4-5        | 5       |  |
| 4-5        | 5         | 5                | 5         | 4-5   | 5      | 4-5        | 5       |  |
| 5          | 5         | 5                | 5         | 5     | 5      | 5          | 5       |  |
| 5          | 5         | 5                | 5         | 5     | 5      | 5          | 5       |  |
| 5          | 5         | 5                | 5         | 5     | 5      | 5          | 5       |  |
| 4-5        | 4-5       | 5                | 4-5       | 4-5   | 5      | 5          | 4-5     |  |
| 4-5        | 4-5       | 5                | 5         | 4-5   | 5      | 4-5        | 5       |  |
| 4-5        | 5         | 5                | 5         | 4-5   | 5      | 4-5        | 5       |  |
| 5          | 5         | 5                | 5         | 5     | 5      | 5          | 5       |  |
| 5          | 5         | 5                | 5         | 5     | 5      | 5          | 5       |  |
| 5          | 5         | 5                | 5         | 5     | 5      | 5          | 5       |  |
| 5          | 5         | 5                | 5         | 5     | 5      | 5          | 5       |  |
| 4-5        | 4-5       | 5                | 4-5       | 4-5   | 5      | 5          | 4-5     |  |
| 4-5        | 5         | 5                | 4-5       | 4-5   | 4-5    | 5          | 5       |  |
| 5          | 5         | 5                | 5         | 4-5   | 5      | 5          | 4-5     |  |
| 5          | 5         | 4-5              | 5         | 5     | 5      | 5          | 5       |  |
| 5          | 5         | 5                | 5         | 5     | 5      | 5          | 5       |  |
| 5          | 5         | 5                | 5         | 5     | 5      | 5          | 5       |  |
| 3-4        | 3-4       | 2-3              | 4-5       | 4     | 2      | 4-5        | 4       |  |
| 4-5        | 4-5       | 4-5              | 5         | 5     | 3      | 5          | 5       |  |
| 4-5        | 4-5       | 5                | 5         | 5     | 4-5    | 5          | 5       |  |
| 4-5        | 4-5       | 5                | 4-5       | 5     | 4-5    | 5          | 4-5     |  |

| Schecoset                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Green B                                                                             | Blue 5G                                                                             | Blue 2R                                                                             | Blue 2RA                                                                            | Navy R                                                                              | Grey G                                                                              | Black B                                                                             | Black PAR                                                                           |                                                                                     |
|  |  |  |  |  |  |  |  |  |
| 1.5                                                                                 | 1.5                                                                                 | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 | 1.0                                                                                 | 4.0                                                                                 | 4.0                                                                                 |                                                                                     |
| 6                                                                                   | 5-6                                                                                 | 6-7                                                                                 | 6-7                                                                                 | 7                                                                                   | 6-7                                                                                 | 7                                                                                   | 7                                                                                   |                                                                                     |
| 4-5                                                                                 | 4                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 4-5                                                                                 | 4-5                                                                                 | 4-5                                                                                 |                                                                                     |
| 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 4-5                                                                                 | 5                                                                                   | 4                                                                                   | 4-5                                                                                 |                                                                                     |
| 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   |                                                                                     |
| 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   |                                                                                     |
| 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 4-5                                                                                 | 5                                                                                   |                                                                                     |
| 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   |                                                                                     |
| 4-5                                                                                 | 4-5                                                                                 | 4-5                                                                                 | 4-5                                                                                 | 5                                                                                   | 4-5                                                                                 | 5                                                                                   | 5                                                                                   |                                                                                     |
| 4-5                                                                                 | 4-5                                                                                 | 4-5                                                                                 | 4-5                                                                                 | 4-5                                                                                 | 4-5                                                                                 | 4                                                                                   | 5                                                                                   |                                                                                     |
| 5                                                                                   | 4-5                                                                                 | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   |                                                                                     |
| 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 4-5                                                                                 | 5                                                                                   | 5                                                                                   |                                                                                     |
| 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 4-5                                                                                 | 5                                                                                   |                                                                                     |
| 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   |                                                                                     |
| 4-5                                                                                 | 4-5                                                                                 | 5                                                                                   | 5                                                                                   | 5                                                                                   | 4-5                                                                                 | 5                                                                                   | 5                                                                                   |                                                                                     |
| 4-5                                                                                 | 4-5                                                                                 | 5                                                                                   | 5                                                                                   | 4-5                                                                                 | 5                                                                                   | 4                                                                                   | 5                                                                                   |                                                                                     |
| 4-5                                                                                 | 4-5                                                                                 | 4-5                                                                                 | 4-5                                                                                 | 4-5                                                                                 | 5                                                                                   | 5                                                                                   | 5                                                                                   |                                                                                     |
| 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   |                                                                                     |
| 5                                                                                   | 4-5                                                                                 | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 4-5                                                                                 | 4-5                                                                                 |                                                                                     |
| 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   |                                                                                     |
| 4-5                                                                                 | 4-5                                                                                 | 5                                                                                   | 5                                                                                   | 5                                                                                   | 4-5                                                                                 | 4-5                                                                                 | 5                                                                                   |                                                                                     |
| 4-5                                                                                 | 4-5                                                                                 | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 3-4                                                                                 | 5                                                                                   |                                                                                     |
| 4-5                                                                                 | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   |                                                                                     |
| 5                                                                                   | 4-5                                                                                 | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   |                                                                                     |
| 5                                                                                   | 4-5                                                                                 | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 4                                                                                   | 5                                                                                   |                                                                                     |
| 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   |                                                                                     |
| 4                                                                                   | 4-5                                                                                 | 4-5                                                                                 | 4-5                                                                                 | 4-5                                                                                 | 4-5                                                                                 | 3-4                                                                                 | 3                                                                                   |                                                                                     |
| 4-5                                                                                 | 4-5                                                                                 | 5                                                                                   | 5                                                                                   | 4-5                                                                                 | 4-5                                                                                 | 4-5                                                                                 | 4                                                                                   |                                                                                     |
| 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   |                                                                                     |
| 5                                                                                   | 4-5                                                                                 | 5                                                                                   | 5                                                                                   | 5                                                                                   | 5                                                                                   | 4-5                                                                                 | 4-5                                                                                 |                                                                                     |