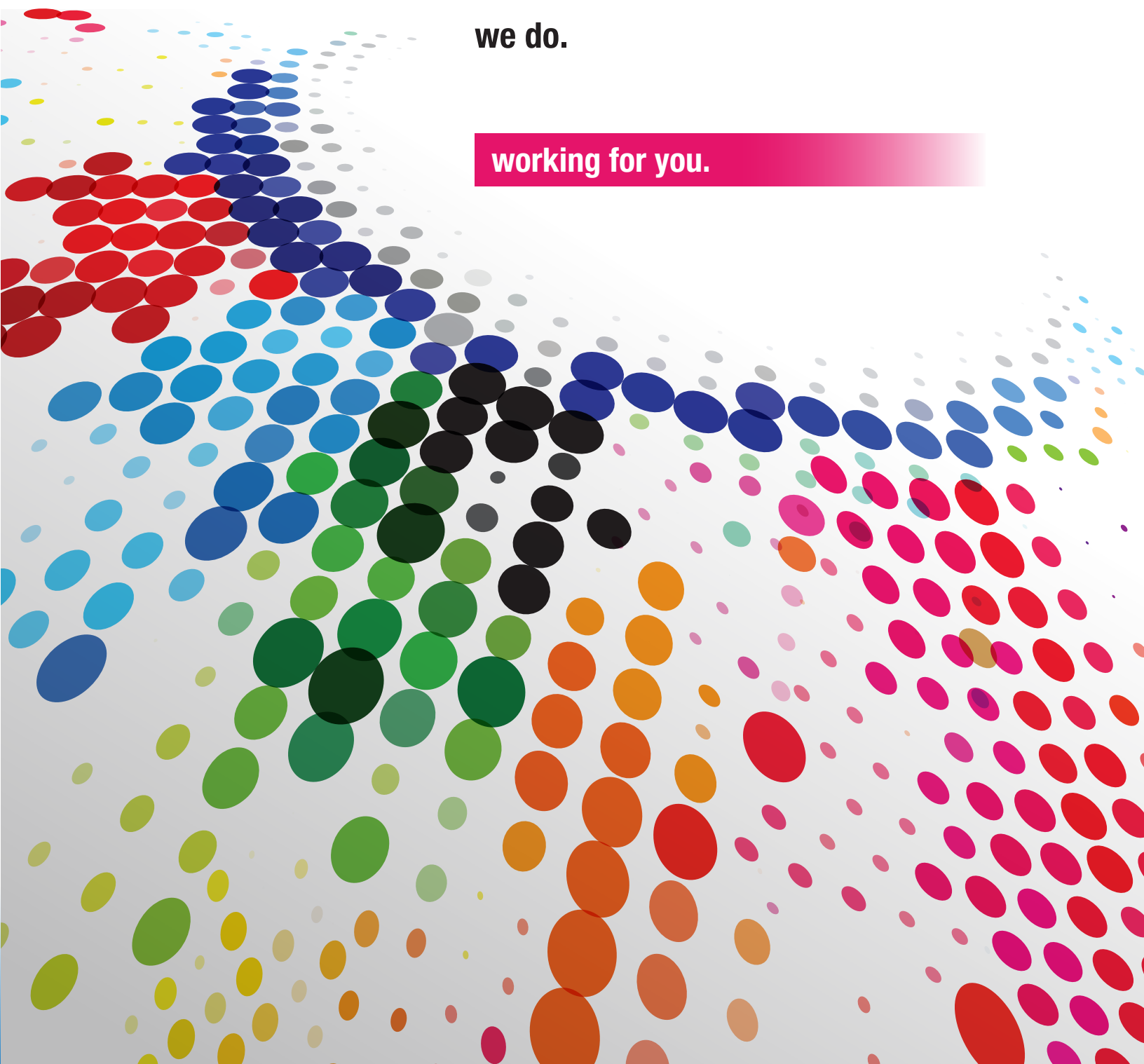


who enables you to consistently deliver  
diverse ink colours with ease?

we do.

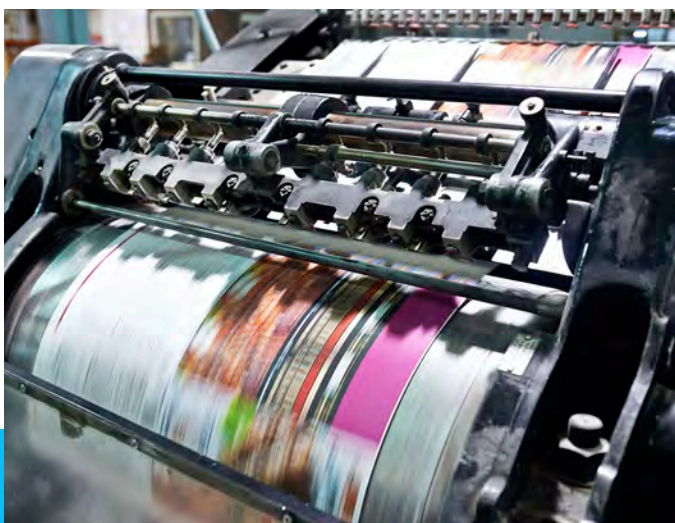
working for you.



**SunChemical®**

a member of the DIC group





## Consistently Deliver a Diverse Colour Palette with Ease

Sun Chemical can help you deliver the exact colours and metal effects that your customers demand with the ease of production and repeatability that you need. Sun Chemical has been the innovator and leader in the colour and metallic effects industry for over 100 years. Our leading-edge technology is unsurpassed as we continue our commitment to quality and innovation in ink applications.

Sun Chemical offers a broad portfolio of organic and inorganic pigments, including classical, high performance, metallic effects, pearlescent effects and preparations. Sun Chemical provides customers with solutions tailor made for their individual needs and requirements in the coatings, cosmetics, digital, merchant ink, plastics and specialties markets.

We have outlined in this brochure the Sun Chemical product line of classical and high performance pigments for ink. The list is not all inclusive and there may be other grades available to better suit your requirements. In addition, Sun Chemical offers forms other than conventional dry powder, including resin-based dispersions and flushes. If you do not see exactly what you need, please contact us.



## Sun Chemical Pigments for Ink

Sun Chemical offers the widest range of pigment technologies for ink, including classical, high performance, aluminum metallic, and natural & synthetic mica pigments.

**Fanchon** - High performance yellow and orange pigments.

**Fastogen** - Phthalocyanine pigments.

**Fastogen Super** - High performance red pigments.

**Indofast** - High performance carbazole violet pigments.

**Sunbrite** - Classical yellow, orange, red and violet pigments.

**Sunfast** - Phthalocyanine pigments.

**Benda-Lutz Metallic Effects** - Aluminum pigments for coatings, including cornflake and silver dollar types with a wide range of flake sizes to cover most coating application needs.

## Delivering Quality, Service and Innovation

The employees at Sun Chemical are personally committed to being the customers' partner of choice. There is never any question as to the priorities in executing each day's business because the employees make every operating decision by implementing the following four key initiatives:

### Safety:

Putting safety first in everything the employee does.

### People Development:

Continually improving the skills of Sun Chemical's people.

### Customer Value System:

Creating value and satisfaction for our customers through profitable and sustainable growth, continuous improvement of our processes, and by supplying products that consistently meet customers' specifications.

### Productivity and Six Sigma:

Continually improving the effectiveness of the Quality Management System through ISO 9001:2015 Registration, Productivity Initiatives and Six Sigma.

## Colour Table Legend

### Chemical Resistance:

The degree of bleed noted after 1 gram of pigment, enclosed in a Whatman filter paper (#2), is suspended in 25ml of test solvent for 24 hours at room temperature in a stoppered test tube. Colour change is expressed on a 1-5 Gray Scale, where 1 indicates poor resistance and 5 represents no change.

### Chemical Resistance Scale:

1. Poor
2. Below Average
3. Average
4. Above Average
5. Excellent

### Light Fastness:

Determined from inks exposed to light in a xenon arc test chamber until a Gray Scale 3 level of colour fade/change is reached. The light fastness rating (see below) is derived by assessment against the fade of Blue Wool standards exposed at the same time.

### Light Fastness Scale:

1. Poor
2. Moderate
3. Below Average
4. Average
5. Above Average
6. Very Good
7. Excellent
8. Outstanding















### Shade Abbreviations:















|        |              |        |             |
|--------|--------------|--------|-------------|
| (BS) = | Blue Shade   | (GS) = | Green Shade |
| (MS) = | Mid Shade    | (RS) = | Red Shade   |
| (YS) = | Yellow Shade |        |             |























Sun Chemical  
organic pigments  
for superior ink  
applications.

### 3 Core Pigments for Ink – International

| Masstone   | 1/20 Tint   | Color Index | Trade Name          | Product Code | Light Fastness | Application Data |               |         |        |     | Comments  |
|--|---|-------------|---------------------|--------------|----------------|------------------|---------------|---------|--------|-----|---|
|  |   |             |                     |              |                | Water            | Ethyl Acetate | Ethanol | Xylene | MEK |   |
|    |    | Yellow 12   | Sunbrite            | 273-3557     | 3              | 5                | 3             | 4       | 3      | 3   | Opaque version for coldset and water-based inks                             |
|  |   |             |                     | 273-3570     | 3-4            | 5                | 3             | 4       | 3      | 4   | Water-based inks  |
|    |    | Yellow 13   | Sunbrite            | 275-9849     | 5-6            | 5                | 4-5           | 5       | 3-4    | 4-5 | Semi opaque version for offset, UV and water-based inks                     |
|  |   |             |                     | 275-9865     | 5-6            | 5                | 4             | 5       | 4      | 4   | Water-based inks  |
|  |   |             |                     | 275-9670     | 5              | 5                | 4             | 4       | 4      | 4   | Water-based inks  |
|  |   |             |                     | 275-9672     | 5              | 5                | 4             | 4       | 4      | 4   | Low PAA pigment for water-based inks  |
|  |   |             |                     | 275-2198     | 5-6            | 5                | 4-5           | 4       | 3      | 4   | Solvent inks  |
|  |   |             |                     | 275-2121     | 5              | 5                | 5             | 5       | 5      | 5   | UV offset with good flow and transparency                                   |
|  |  | Yellow 174  | Sunbrite            | 275-9902     | 5-6            | 5                | 4-5           | 3-4     | 3-4    | 3-4 | Offset, UV  |
|  |   |             |                     | 275-9906     | 5-6            | 5                | 4-5           | 4       | 3      | 4   | Offset, UV  |
|  |  | Yellow 126  | Symuler Fast Yellow | 275-4801     | 5              | 5                | 4             | 5       | 3      | 5   | Offset, UV  |
|  |  | Yellow 14   | Sunbrite            | 274-1746     | 4              | 5                | 5             | 5       | 4      | 4   | Solvent- and water-based inks (GS)  |
|  |   |             |                     | 274-1749     | 5              | 5                | 3-4           | 5       | 4      | 4   | Water-based Inks (RS), transparent  |
|  |   |             | Symuler Fast Yellow | 274-4419     | 4              | 5                | 4             | 5       | 4      | 4   | Solvent and water-based inks with good flow. Suitable for UV flexo (MS)     |
|  |  | Yellow 17   | Sunbrite            | 275-0023     | 5-6            | 5                | 3-4           | 5       | 3      | 3-4 | Solvent-based inks (GS)   |
|  |   |             |                     | 275-9904     | 5-6            | 4-5              | NT            | 5       | NT     | 4   | General purpose   |
|  |  | Yellow 74   | Sunbrite            | 272-0559     | 5              | 5                | 3             | 3-4     | 3-4    | 3-4 | Solvent- and water-based inks good gloss and colour strength. UV Flexo (GS) |
|  |   |             |                     | 272-0745     | 6              | 5                | 3             | 4-5     | 3      | 3   | Water-based inks  |
|  |   |             |                     | 272-0560     | 6-7            | 5                | NT            | 4       | 3      | 3   | Solvent Inks  |

| Masstone   | 1/20 Tint   | Color Index | Trade Name            | Product Code | Light Fastness | Application Data |               |         |        |     | Comments  |
|--|---|-------------|-----------------------|--------------|----------------|------------------|---------------|---------|--------|-----|---|
|  |   |             |                       |              |                | Water            | Ethyl Acetate | Ethanol | Xylene | MEK |   |
|    |    | Yellow 83   | Sunbrite              | 275-0083     | 6              | 3                | 3             | 4       | 4      | 3   | Water-based inks  |
|  |   |             |                       | 275-0570     | 6              | 3                | 3             | 4       | 4      | 3   | UV flexo  |
|  |   |             |                       | 275-3285     | 5-6            | 5                | 3-4           | 5       | 3      | 3-4 | Transparent with good flow and low content of aromatic amines. UV flexo |
|  |   |             | Spectra PAC C         | 275-3087     | 6              | 4-5              | 4             | 4       | 3      | 3   | Very transparent (RS) for solvent based inks, UV flexo                  |
|    |    | Yellow 138  | Fanchon               | 279-5138     | 7-8            | 5                | 3             | 5       | 4      | 4   | UV offset   |
|    |    | Yellow 139  | Fanchon               | 279-5139     | 7              | 5                | 5             | 5       | 5      | 4   | High performance, general purpose                                       |
|    |    | Yellow 150  | Fanchon               | 279-3150     | 8              | 5                | 5             | 5       | 5      | 5   | High performance, metal decoration and water-based inks. UV inks        |
|   |   | Yellow 151  | Fanchon               | 271-5151     | 8              | 5                | 5             | 5       | 5      | 5   | High performance, general purpose                                       |
|  |  | Yellow 180  | Fanchon               | 271-1180     | 7-8            | 5                | 5             | 5       | 5      | 5   | High performance, general purpose, UV                                   |
|  |  | Orange 5    | Sunbrite              | 276-2505     | 5              | 5                | 3             | 4       | 2-3    | 2   | Water-based inks  |
|  |   |             |                       | 276-2517     | 4              | 5                | 2             | 2-3     | 2      | 2   | Opaque version for water-based inks                                     |
|  |   |             |                       | 276-2520     | 5              | 5                | 2             | 3       | 2      | 2   | Transparent version for water and solvent-based inks                    |
|  |   |             |                       | 276-2522     | 6              | 4                | 2             | 2       | 2-3    | 2-3 | Solvent-based inks and chip   |
|  |  | Orange 13   | Sunbrite              | 276-2630     | 5              | 4-5              | 3             | 3       | 2-3    | 3   | UV offset and water-based inks  |
|  |   |             |                       | 276-2384     | 6              | 5                | 3             | 3       | 3      | 2   | UV offset and water-based inks  |
|  |  | Orange 16   | Symuler Fast Orange V | 276-160V     | 3-4            | 5                | 4             | 5       | 4      | 4   | General purpose   |
|  |   |             | Sunbrite              | 276-3526     | NT             | 5                | 5             | 5       | 3      | 5   | Water and solvent based inks  |










## 5 Core Pigments for Ink – International

| Masstone   | 1/20 Tint   | Color Index | Trade Name       | Product Code | Light Fastness | Application Data |               |         |        |     | Comments   |
|--|---|-------------|------------------|--------------|----------------|------------------|---------------|---------|--------|-----|--|
|  |   |             |                  |              |                | Water            | Ethyl Acetate | Ethanol | Xylene | MEK |  |
|    |    | Orange 34   | Sunbrite         | 282-3404     | 6              | 4                | 5             | 4-5     | 4      | 4   | Water-based and offset inks                        |
|    |    | Orange 43   | Fanchon          | 276-1430     | 8              | 5                | 5             | 5       | 5      | 5   | UV Metal Deco and Sheetfed                         |
|    |    | Red 2       | Sunbrite         | 235-S312     | 7-8            | 5                | 3             | 2       | 2      | 1   | Offset, water-based inks and UV                    |
|    |    | Red 4       | Sunbrite         | 235-0402     | 5              | 5                | 3             | 3       | 2-3    | 3-4 | Water-based inks                                   |
|    |    | Red 48:1    | Sunbrite         | 234-3955     | 3              | 5                | 4             | 4       | 4      | 4   | Water and solvent-based inks (YS)                  |
|  |   |             | Symuler Red 3019 | 234-3109     | 4              | 5                | 4             | 5       | 5      | 3   | Solvent inks                                       |
|   |   | Red 48:2    | Sunbrite         | 234-0562     | 5              | 5                | 5             | 4       | 5      | 5   | Solvent-based inks and UV metal deco               |
|  |   |             |                  | 234-0068     | 5              | 5                | 3             | 2       | 3      | 2   | General purpose                                    |
|  |   |             |                  | 234-0482     | 5-6            | 4                | 4-5           | 4-5     | 4      | 4-5 | Solvent-based inks, water-based, metal deco and UV |
|  |  | Red 48:3    | Symuler Red 3075 | 234-3075     | 4              | 4-5              | 5             | 4       | 5      | 5   | Solvent- and water-based inks (BS)                 |
|  |  | Red 48:4    | Sunbrite         | 234-0575     | 7              | 5                | 4             | 3       | 4      | 4   | Solvent- and water-based ink, offset and UV        |
|  |  | Red 53:1    | Sunbrite         | 215-7616     | 3              | 5                | 4-5           | 4       | 4      | 5   | General purpose (YS)                               |
|  |   |             |                  | 215-5300     | 3-4            | 5                | NT            | 4       | 3      | 3   | General purpose                                    |
|  |   |             |                  | 215-0692     | 3              | 4                | 2             | 4       | 2-3    | 2   | General purpose (YS)                               |
|  |  | Red 57:1    | Sunbrite         | 219-3728     | 3-4            | 4                | 4-5           | 4-5     | 4      | 4-5 | Solvent-based inks (BS)                            |
|  |   |             |                  | 219-7102     | 3-4            | 5                | 4-5           | 4-5     | 4-5    | 4-5 | Offset, UV, 219-306S replacement                   |
|  |   |             |                  | 219-2119     | 4              | 4                | 4             | 2       | 5      | 4   | Solvent based inks (MS)                            |
|  |   |             |                  | 219-0303     | 5              | 2                | 4             | 2       | 4      | 3   | (UV) offset (BS) 219-303S replacement              |
|  |   |             |                  | 219-2282     | 5              | 3                | 4             | 4       | 3      | 3   | Offset (YS)  |
|  |   |             |                  | 219-2431     | 5              | 4-5              | 4-5           | 4       | 4      | 4-5 | Offset, UV, mid shade                              |
|  |   |             |                  | 219-8540     | 5              | 3                | NT            | 4       | 3      | 3   | Water-based Inks (MS)                              |








| Masstone | 1/20 Tint | Color Index | Trade Name                        | Product Code | Light Fastness | Application Data |               |         |        |     | Comments                                   |
|----------|-----------|-------------|-----------------------------------|--------------|----------------|------------------|---------------|---------|--------|-----|--|
|          |           |             |                                   |              |                | Water            | Ethyl Acetate | Ethanol | Xylene | MEK |  |
|          |           | Red 57:1    | Symuler Brilliant Carmine 6B393   | 219-393S     | 5              | 3                | 5             | 2       | 5      | 3   | Solvent-based inks (M-BS)                  |
|          |           |             | Symuler Brilliant Carmine 6B340K  | 219-340K     | 5              | 4                | 5             | 4       | 5      | 5   | Rosin-amine free version of 219-350K (W)   |
|          |           |             | Symuler Brilliant Carmine 6B350K  | 219-350K     | 5              | 4                | 3             | 2       | 3      | 2   | UV inks (BS)                               |
|          |           |             | Symuler Brilliant Carmine 6B368K  | 219-368K     | 5              | 4                | 3             | 2       | 4      | 4   | UV inks (YS)                               |
|          |           |             | Symuler Brilliant Carmine 6B397   | 219-397S     | 5              | 3                | 5             | 2       | 5      | 3   | Solvent based inks, PVB (BS)               |
|          |           |             | Symuler Brilliant Carmine 6B458K  | 219-458K     | 5              | 4                | 4             | 2       | 4      | 4   | Rosin-amine free version of 219-368K (W)   |
|          |           |             | Symuler Brilliant Carmine 6B401   | 219-401S     | 5              | 4                | 3             | 4-5     | 3      | 2   | Solvent based inks, UV (MS)                |
|          |           |             | Symuler Brilliant Carmine 6B550SD | 219-550D     | 5              | 4-5              | 4-5           | 4       | 3-4    | 3-4 | Water-based inks (blue shade)              |
|          |           |             | Symuler Brilliant Carmine 6B400S  | 219-400S     | 5              | 3                | 5             | 2       | 5      | 3   | Solvent based inks (strong transparent MS) |
|          |           | Red 81:2    | Sunbrite                          | 221-0021     | 3              | 3                | 2             | 2       | 5      | 3   | General purpose (YS)                       |
|          |           | Red 112     | Sunbrite                          | 235-0337     | 7              | 5                | 1             | 2       | 1      | 1   | General purpose (YS)                       |
|          |           |             |                                   | 235-0112     | 8              | 5                | 3-4           | 4       | 3      | 3-4 | Offset and water-based inks                |

## 7 Core Pigments for Ink – International

| Masstone   | 1/20 Tint   | Color Index | Trade Name                 | Product Code | Light Fastness | Application Data |               |         |        |     | Comments                                       |
|--|---|-------------|----------------------------|--------------|----------------|------------------|---------------|---------|--------|-----|--|
|  |   |             |                            |              |                | Water            | Ethyl Acetate | Ethanol | Xylene | MEK |  |
|    |    | Red 122     | Fastogen Super Magenta RG  | 228-OMRG     | 7-8            | 5                | 5             | 4       | 5      | 5   | Solvent, water and digital inks. UV flexo (BS) |
|  |   |             | Fastogen Super Magenta RY  | 228-OMRY     | 7-8            | 5                | 5             | 4       | 5      | 5   | Solvent, water and digital inks. UV flexo (YS) |
|  |   |             | Fastogen Super Magenta RTS | 228-MRTS     | 7-8            | 5                | 5             | 4       | 5      | 5   | Water-based inks (BS), and UV inks             |
|    |    | Red 146     | Sunbrite                   | 235-1460     | 5              | 5                | 4             | 4-5     | 4      | 3   | General purpose                                |
|  |   |             |                            | 235-1466     | 5-6            | 5                | 4-5           | 5       | 4      | 3-4 | General purpose                                |
|   |   | Red 170     | Sunbrite                   | 235-7170     | 6              | 5                | 4-5           | 4       | 5      | 4-5 | Solvent-based inks, transparent (BS)           |
|  |   |             |                            | 235-7070     | 7              | 5                | 4             | 4-5     | 4-5    | 4   | Water-based inks, opaque                       |
|  |  | Red 176     | Sunbrite                   | 235-1760     | 6              | 5                | 4             | 4       | 4-5    | 4   | General purpose                                |
|  |  | Red 184     | Sunbrite                   | 235-5184     | 5              | 5                | 4             | 4       | 4      | 4   | General purpose                                |
|  |  | Red 185     | Sunbrite                   | 235-5185     | 6              | 5                | 5             | 5       | 5      | 5   | Solvent-based ink                              |
|  |   |             |                            | 235-5186     | 6              | 5                | 5             | 5       | 5      | 5   | Offset UV                                      |
|  |  | Red 207     | Fastogen Super Scarlet AY  | 228-OSAY     | 8              | 5                | 5             | 4       | 5      | 4-5 | Water- and solvent-based inks (YS)             |
|  |  | Red 210     | Sunbrite                   | 235-0552     | 6-7            | 5                | 2             | 2       | 3      | 3   | General purpose                                |
|  |  | Red 254     | Sunbrite                   | 226-6254     | 8              | 5                | 5             | 5       | 5      | 5   | DPP opaque (YS)                                |



| Masstone   | 1/20 Tint   | Color Index      | Trade Name           | Product Code | Light Fastness | Application Data |               |         |        |     | Comments                               |
|--|---|------------------|----------------------|--------------|----------------|------------------|---------------|---------|--------|-----|--|
|  |   |                  |                      |              |                | Water            | Ethyl Acetate | Ethanol | Xylene | MEK |  |
|    |    | Violet 3         | Sunbrite             | 243-0774     | 5              | 5                | 4             | 1       | 4-5    | 1   | Solvent-based inks (BS)                |
|  |   |                  |                      | 243-0304     | 4              | 5                | 3             | 1       | 4      | 1   | Water-based inks (RS)                  |
|    |    | Violet 23        | Indofast             | 246-1672     | 8              | 5                | 5             | 5       | 4-5    | 4   | General purpose (BS)                   |
|  |   |                  |                      | 246-1673     | 8              | 5                | 5             | 5       | 4-5    | 4   | General purpose (redder than 246-1672) |
|  |   |                  |                      | 246-1680     | 7              | 5                | 5             | 5       | 4-5    | 5   | Water-based inks, UV flexo (BS)        |
|  |   |                  |                      | 246-1692     | 7-8            | 5                | 4-5           | 4-5     | 3-4    | 3-4 | Water based Inks (BS)                  |
|  |   |                  |                      | 246-3023     | 7              | 4                | 1             | 1       | 1      | 1   | Offset and UV                          |
|   |   | Violet 27        | Sunbrite             | 243-0141     | 4-5            | 4-5              | 3             | 3       | 3      | 1   | Water-based inks (BS)                  |
|  |   |                  |                      | 243-0145     | 4-5            | 5                | 2             | 1       | 3      | 1   | Water-based inks (RS)                  |
|  |  | Blue 15:3 / V 23 | Sunfast Blue         | 248-0329     | 8              | 5                | 5             | 5       | 5      | 5   | Offset (GS)                            |
|  |  | Blue 15:3        | Fastogen Blue FA5375 | 249-A75F     | 8              | 5                | 5             | 5       | 5      | 5   | Offset and UV                          |
|  |   |                  | Fastogen Blue LA5380 | 249-A80L     | 8              | 5                | 5             | 5       | 5      | 5   | Water- and solvent-based inks (GS)     |
|  |   |                  |                      | 249-1256     | 8              | 5                | 5             | 5       | 5      | 5   | Offset and UV (GS)                     |
|  |   |                  |                      | 249-9832     | 7-8            | 5                | 4-5           | 4-5     | 3-4    | 4   | Offset and UV (GS)                     |
|  |   |                  | Sunfast              | 249-7154     | 8              | 5                | 5             | 5       | 5      | 5   | UV flexo                               |
|  |   |                  |                      | 249-9836     | 7-8            | 5                | 4-5           | 4-5     | 3-4    | 4   | Water based inks, UV Flexo             |
|  |   |                  |                      | 249-9838     | 8              | 5                | 5             | 5       | 4-5    | 4-5 | Water-based inks                       |
|  |   |                  |                      |              |                |                  |               |         |        |     |  |

## 9 Core Pigments for Ink – International

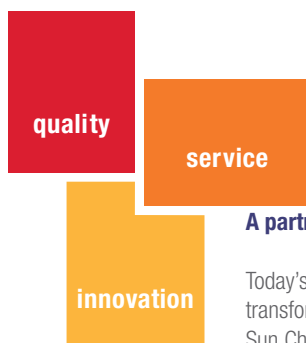
| Masstone | 1/20 Tint | Color Index | Trade Name             | Product Code | Light Fastness | Application Data |               |         |        |     | Comments  |
|----------|-----------|-------------|------------------------|--------------|----------------|------------------|---------------|---------|--------|-----|---|
|          |           |             |                        |              |                | Water            | Ethyl Acetate | Ethanol | Xylene | MEK |   |
|          |           | Blue 15:4   | Sunfast                | 249-9820     | 7              | 5                | 5             | 5       | 5      | 5   | Solvent-based inks, UV flexo                            |
|          |           |             | Spectrapac C Blue 15:4 | 249-3054     | 8              | 5                | 5             | 5       | 5      | 5   | UV flexo  |
|          |           |             | Fastogen Blue 5435K    | 249-5435     | 7              | 5                | 5             | 4       | 4-5    | 4-5 | Solvent-based inks, UV flexo                            |
|          |           |             | Fastogen Blue 5452K    | 249-5452     | 8              | 5                | 5             | 3       | 5      | 4-5 | Solvent-based inks                                      |
|          |           |             | Fastogen Blue 5455K    | 249-5455     | 8              | 5                | 5             | 3       | 5      | 4-5 | Solvent based ink high alcohol, UV flexo                |
|          |           | Green 7     | Sunfast                | 264-0414     | 7-8            | 5                | 5             | 5       | 5      | 5   | General purpose (MS)                                    |
|          |           |             |                        | 264-7405     | 7-8            | 5                | 5             | 5       | 5      | 4   | General purpose (BS)                                    |
|          |           |             |                        | 264-7500     | 7-8            | 5                | 5             | 5       | 5      | 5   | Water-based inks (BS)                                   |
|          |           |             |                        | 264-7530     | 8              | 5                | 5             | 5       | 4-5    | 5   | Water-based inks (BS)                                   |
|          |           |             |                        | 264-7600     | 7-8            | 5                | 5             | 5       | 5      | 5   | Offset and water-based inks (YS)                        |
|          |           |             |                        | 264-7950     | 8              | 5                | 5             | 5       | 4-5    | 5   | Offset (YS)   |
|          |           |             |                        | 264-3066     | 7-8            | 5                | 5             | 5       | 5      | 5   | Solvent-based inks, UV flexo (BS)                       |
|          |           |             |                        | 264-3120     | 7-8            | 5                | 5             | 5       | 5      | 5   | Solvent-based inks, low abrasion                        |
|          |           |             |                        | 264-7850     | 7-8            | 5                | 5             | 5       | 4-5    | 5   | Solvent-based inks (MS)                                 |
|          |           | Black 7     | Sunfast                | 247-3007     | 8              | 5                | 5             | 5       | 5      | 5   | UV inks, can be used as an additive to improve rheology |

| Product Code                  | Product Characteristics |         |     |        |            |                   |
|-------------------------------|-------------------------|---------|-----|--------|------------|-------------------|
|                               | Form                    | Type    | D50 | Metal% | Carrier    | Comments          |
| <b>Benda-Lutz Leafing</b>     |                         |         |     |        |            |                   |
| 1281                          | Paste                   | Leafing | 9   | 73     | IP         | Solvent-based ink |
| 12052                         | Paste                   | Leafing | 12  | 80     | EA         | Solvent-based ink |
| 12082                         | Paste                   | Leafing | 10  | 73     | EA, IP     | Solvent-based ink |
| 1291                          | Paste                   | Leafing | 5   | 65     | MO         | Offset            |
| <b>Benda-Lutz Non-Leafing</b> |                         |         |     |        |            |                   |
| 6242                          | Paste                   | NL      | 14  | 70     | EA, IPA    | Solvent-based ink |
| 6262                          | Paste                   | NL      | 12  | 65     | EA, IP     | Solvent-based ink |
| 6282                          | Paste                   | NL      | 9   | 65     | EA, IP     | Solvent-based ink |
| <b>Benda-Lutz METALLIC</b>    |                         |         |     |        |            |                   |
| 6854                          | Paste                   | NL      | 19  | 65     | EA, IP     | Solvent-based ink |
| 6854 NCS                      | Paste                   | NL      | 19  | 65     | EA, IP     | Solvent-based ink |
| 6862                          | Paste                   | NL      | 14  | 65     | EA, IP     | Solvent-based ink |
| <b>Benda-Lutz MAXAL</b>       |                         |         |     |        |            |                   |
| 64054                         | Paste                   | NLSD    | 17  | 65     | EA, IP     | Solvent-based ink |
| 64064                         | Paste                   | NL SD   | 15  | 65     | EA, IP     | Solvent-based ink |
| 64064 NCS                     | Paste                   | NL SD   | 15  | 65     | EA, IP     | Solvent-based ink |
| 64084                         | Paste                   | NL SD   | 9   | 65     | EA, IP     | Solvent-based ink |
| <b>Benda-Lutz COMPAL</b>      |                         |         |     |        |            |                   |
| 4242 D                        | Pellet                  | NL      | 12  | 80     | Resin      | Solvent-based ink |
| 4251/95 D                     | Pellet                  | NL      | 16  | 95     | Resin      | Solvent-based ink |
| 4282 D                        | Pellet                  | NL      | 9   | 80     | Resin      | Solvent-based ink |
| 4151 WS                       | Pellet                  | Leafing | 16  | 90     | Additives  | WB & SB ink       |
| 4242 WS                       | Pellet                  | NL      | 13  | 90     | Additives  | WB & SB ink       |
| 4464 WS                       | Pellet                  | NL SD   | 16  | 90     | Additives  | WB & SB ink       |
| 4468 WS                       | Pellet                  | NL      | 15  | 88     | Additives  | WB & SB ink       |
| 4474 WS                       | Pellet                  | NL SD   | 11  | 88     | Additives  | WB & SB ink       |
| <b>Benda-Lutz SPLENDAL</b>    |                         |         |     |        |            |                   |
| 6000                          | Slurry                  | VMP NL  | 12  | 10     | EA/IPA     | Solvent-based ink |
| 6001                          | Slurry                  | VMP NL  | 12  | 10     | EA/IPA, ET | Solvent-based ink |
| 6001 S                        | Slurry                  | VMP NL  | 12  | 10     | EA         | Solvent-based ink |
| 6002                          | Slurry                  | VMP NL  | 12  | 10     | EA/IPA     | Solvent-based ink |
| 6003                          | Slurry                  | VMP NL  | 12  | 10     | EA/IPA     | Solvent-based ink |

**Type:**  
 NL = Non-leafing  
 SD = Silver Dollar  
 VMP = Vacuum Metallized Pigment

**Carrier:**  
 EA = Ethyl Acetate  
 IPA = Isopropyl Acetate  
 IP = Isopropanol  
 MO = Mineral Oil  
 WS = Water Soluble

\* = Coming soon



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# 11 Benda-Lutz Metallic Pigments for Ink

| Product Code           | Product Characteristics |         |     |        |                         |                   |
|------------------------|-------------------------|---------|-----|--------|-------------------------|-------------------|
|                        | Form                    | Type    | D50 | Metal% | Carrier                 | Comments          |
| Benda-Lutz Gold Bronze |                         |         |     |        |                         |                   |
| G2031                  | Powder                  | Leafing | 28  | 100    | Rich, RP, Pale & Copper | Solvent-based ink |
| G2041                  | Powder                  | Leafing | 16  | 100    | Rich, RP, Pale & Copper | Solvent-based ink |
| G2051                  | Powder                  | Leafing | 10  | 100    | Rich, RP, Pale & Copper | Solvent-based ink |
| G2071                  | Powder                  | Leafing | 9   | 100    | Rich, RP, Pale & Copper | Solvent-based ink |
| G7778                  | Stabilised Powder       | NL      | 8   | 100    | Rich, RP, Pale & Copper | WB & SB ink       |

Type:  
NL = Non-leafing  
SD = Silver Dollar

VMP = Vacuum Metallized  
Pigment

Carrier:  
EA = Ethyl Acetate  
IPA = Isopropyl Acetate

IP = Isopropanol  
MO = Mineral Oil

WS = Water Soluble

| Product Code       | Product Characteristics |          |         |   |
|--------------------|-------------------------|----------|---------|---|
|                    | Geometry                | D50 (µm) | Metal % | Comments                                |
| COMPAL WS for Inks |                         |          |         |   |
| COMPAL 4474 WS     | Thin SD                 | 11       | 88      | Exceptional brilliance and good opacity |
| COMPAL 4468 WS     | Thin SD                 | 15       | 88      |   |
| COMPAL 4464 WS     | SD                      | 16       | 90      | High level of brilliance                |
| COMPAL 4242 WS     | CF                      | 13       | 90      | Good value NL pigment                   |
| COMPAL 4151 WS     | CF                      | 16       | 90      | Semi leafing bright CF                  |