

Metallic pigments can be added to solvent-based and UV-curable screen printing ink. Metallic pigments are available as powders and pastes.

v 7 EN

Ref: v 6 EN

While technical information and advice on the use of this product is provided in good faith, the User bears sole responsibility for selecting the appropriate product for their end-use requirements. Reference the 'Quality Statement' at the end of this document.

User Information

Mesh

Match particle size to the mesh count/mesh opening. When the mesh opening is too small, larger pigment particles are blocked from passing through the screen and onto the substrate, eventually blocking the printing of the ink.

Particle Size in Microns	Mesh Count
45-55 µm	195-55tpi (77tpcm) or lower
40-45 µm	230-48tpi (90tpcm) or lower
35-40 µm	280-34tpi (110tpcm) or lower
20-35 µm	305-34tpi (120tpcm) or lower
10-20 µm	355-34tpi (140tpcm) or lower

Reference your mesh manufacturer's guidelines as to the mesh count, thread diameter and mesh open area to determine the printing requirements with respect to pigment particle size.

Pigment Load

Depending on ink system, mesh count, adhesion, cure, and desired effect, the recommended percentages by weight:

Gold/Coppers
Powders – Up to 15% by weight
Pastes – Up to 18% by weight
Aluminums
Powders – Up to 8% by weight
Paste – Up to 12% by weight

Chemical reactions in metallic inks may result in viscosity, color and printability changes over time. Mix only enough metallic ink to be used the same day.

When inks are to be printed over Metallic color, the overprinting ink(s) must be evaluated for intercoat adhesion over the Metallic color before proceeding with the production run. To maximize intercoat adhesion over Metallic colors, we recommend that the Metallic color be printed as late as possible in the print sequence.

Leafing / Non- Leafing

Non-leafing pigments are characterized by an even particle distribution throughout the coating and may tend to have less sheen than leafing pigments.

Leafing pigments are at or near the film surface, rather than distributed throughout the coating. Leafing pigments tend to produce a brighter finish than non-leafing pigments; however, the surface can become damaged unless overprinted with clear.

Storage

Close tightly and store in a dry area.

Handling

It is recommended that all personnel mixing and handling these products minimize the creation of dust and wear gloves and safety glasses to prevent contact. See the appropriate MSDS for additional information.

Manufacturer's Product Offering

Based on information from our raw material suppliers, these ink products are formulated to contain less than 0.06% lead. If exact heavy metal content is required, independent lab analysis is recommended.

Metallic Pigments

Metallic Powders & Pastes



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Color Card Materials

Special Effects Color Card (CARDSPL): provides screen printed samples and visual reference of several Metallic Powders and Pastes.

Packaging / Availability

All metallic Pigments are available in one pound containers.

Item Number	Aluminum/Silver Pigments	Powder or Paste	Average particle Size (µm)
SIPM504	Aluminum Paste L-228	Paste	17
SIPM531	30 Aluminum Powder	Powder	20
SIPM591	Aluminum Paste	Paste	11
SIPM571	313 Aluminum Paste	Paste	24
SIPM573	2871 Aluminum	Powder	13
SIPM606	Aluminum 6600	Paste	18
BP120	Extra Fine Aluminum	Powder	20
BP195	Aluminum Lining	Powder	30
BP200	Superfine Aluminum	Powder	15
BP242	Extra Brilliant Alumin	Powder	50
BP325A	Aluminum	Powder	15
BP400A	Aluminum	Powder	10
BP807	Superfine Aluminum	Powder	15

Item Number	Rich Gold Pigments	Powder or Paste	Average particle Size (µm)
SIPM525	Rich Gold Powder	Powder	16
SIPM528	C12 Rich Gold Powder	Powder	9
SIPM610	Rich Gold Powder	Powder	35
BP400R	Rich Gold	Powder	10
BP91	Rich Gold Lining	Powder	20

Item Number	Rich/Pale Gold Pigments	Powder or Paste	Average particle Size (µm)
SIPM523	60 Rich Pale Gold Powder	Powder	35
BP177	Rich Pale Gold	Powder	20
BP400RP	Rich Pale Gold	Powder	10
BP99	Rich Pale Gold Lining	Powder	40

Item Number	Pale Gold Pigments	Powder or Paste	Average particle Size (µm)
SIPM527	C12 Pale Gold	Powder	9
SIPM529	60 Pale Gold	Powder	35
SIPM530	Pale Gold Powder	Powder	16
BP24	Pale Gold Leaf	Powder	20
BP400P	Pale Gold	Powder	10
BP90	Light Pale Gold Lining	Powder	30

Item Number	Copper Pigments	Powder or Paste	Average Particle Size (µm)
SIPM514	950 Copper	Powder	12
BP400C	Copper	Powder	10
BP93	Copper Lining	Powder	30

Nazdar Quality Statement

Nazdar® stands behind the quality of this product. Nazdar® cannot, however, guarantee the finished results because Nazdar® exercises no control over individual operating conditions and production procedures. While technical information and advice on the use of this product is provided in good faith, the User bears sole responsibility for selecting the appropriate product for their end-use requirements. Users are also responsible for testing to determine that our product will perform as expected during the printed item's entire life-cycle from printing, post-print processing, and shipment to end-use. This product has been specially formulated for screen printing, and it has not been tested for application by any other method. Any liability associated with the use of this product is limited to the value of the product purchased from Nazdar®.

Metallic Pigments

Metallic Powders & Pastes

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