Nazdar Metallic Powders & Pastes

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

Cautions
Too much Metallic item can lead to curing issues, reduces the ink flow, and poor transfer.

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.

Additive Usage
Special Effect pigments are used with Nazdar solvent-based and UV-curable clear and transparent inks.

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.

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.

Pigment Load
Add up to the following amount to the ink by weight:

Golds/Coppers	Powders: up to 15%	Pastes: up to 18%
Aluminums:	Powders up to 8%	Pastes: up to 12%

Example for additives: Ink at 100g with 8% of an additive is calculated as:100g ink + 8g additive = 108g total

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 um	195-55tpi (77tpcm) or lower
40-45 um	230-48tpi (90tpcm) or lower
35-40 um	280-34tpi (100tpcm) or lower
20-35 um	305-34tpi (120tpcm) or lower
10-20 um	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.

Inter-Printable
When inks are to be printed over these effect colors, the overprinting ink(s) must be evaluated for intercoat adhesion before proceeding with the production run. To maximize intercoat adhesion over interference colors, Interference colors should be printed as late as possible in the print sequence.

Additives
Prior to production, test any additive adjustment to the ink. Inks containing additives should not be mixed with other inks.

General Information
Handling
Refer to the SDS for recommendations on handling.
Wear gloves and barrier cream to prevent direct skin contact. Safety glasses are suggested in areas where ink may be splashed. If

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product does come in contact with skin, wipe ink off with a clean, dry cloth (do not use solvent or reducer). Wash the affected area with soap and water.
Refer to the SDS for recommendations on handling.
Inhalation is the primary route of exposure and irritation with powder pigments. Therefore, it is recommended that all personnel mixing and handling these products minimize the creation of dust. If pigment is inhaled, seek fresh air and consult a doctor if feeling unwell.

Consult the applicable Safety Data Sheet (SDS / MSDS) for further instructions and warnings.
For assistance on a wide range of important regulatory issues, consult the following Regulatory Compliance Department link at http://www.nazdar.com or contact Nazdar Ink Technologies - World Headquarters (see contact listing at the end of this document).

Storage / Shelf Life
Useable for a period of at least **24 months** from the date of manufacture.

Specific Storage / Shelf Life Info
Close tightly and store in a dry area. Exposure to air and humidity can cause the pigment to change color.

Standard Color Range
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.

Packaging / Availability
Contact your Nazdar distributor for product availability and offering.
Standard Colors
Standard items listed below are inventoried in 1 pound containers.

Item Type	Item Number	Item (or Color) Description
	Aluminum/Silver Pigments	
Additives	SIPM504	Aluminum Paste L-228 (paste)
Additives	SIPM531	30 Aluminum Powder (powder)
Additives	SIPM591	Aluminum Paste (paste)
Additives	SIPM571	313 Aluminum Paste (paste)
Additives	SIPM573	2871 Aluminum (powder)
Additives	SIPM606	Aluminum 6600 (paste)
Additives	BP120	Extra Fine Aluminum (powder)
Additives	BP195	Aluminum Lining (powder)
Additives	BP200	Superfine Aluminum (powder)
Additives	BP242	Extra Brilliant Alumin (powder)
Additives	BP325A	Aluminum (powder)
Additives	BP400A	Aluminum (powder)
Additives	BP807	Superfine Aluminum (powder)
	Rich Gold Pigments	
Additives	SIPM525	Rich Gold Powder (powder)
Additives	SIPM528	C12 Rich Gold Powder (powder)
Additives	SIPM610	Rich Gold Powder (powder)
Additives	BP91	Rich Gold Lining (powder)
	Rich/Pale Gold Pigments	
Additives	SIPM523	60 Rich Pale Gold Powder (powder)
Additives	BP177	Rich Pale Gold (powder)
Additives	BP99	Rich Pale Gold Lining (powder)
	Pale Gold Pigments	
Additives	SIPM527	C12 Pale Gold (powder)
Additives	SIPM529	60 Pale Gold (powder)
Additives	SIPM530	Pale Gold Powder (powder)
Additives	BP24	Pale Gold Leaf (powder)
Additives	BP400P	Pale Gold (powder)

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Additives	BP90	Light Pale Gold Lining (powder)
	Copper Pigments	
Additives	SIPM514	950 Copper (powder)
Additives	BP400C	Copper (powder)
Additives	BP93	Copper Lining (powder)

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®.

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