

182034PC Etch Resist Black Screen Ink has been formulated to print on various metal stocks, including brass and stainless steel used in the nameplate and printed circuit board industries.

This resist withstands not only most plating solutions but can be used as a solvent strippable resist with alkaline etchants. This resist ink is easily removed with Xylene (2555 Screen Wash) even after baking at relatively high temperature.

SUBSTRATES Copper, aluminum, brass, stainless steel

USER INFORMATION

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. See full disclaimer at the end of the document.

MESH 200-260 threads per inch (80-100 threads per centimeter) monofilament polyester or stainless steel mesh for most applications

STENCIL Solvent resistant direct emulsions and capillary films

SQUEEGEE 70 durometer polyurethane squeegee

COVERAGE 1000-1200 square feet (93-111 square meters) per gallon depending upon ink deposit

PRINTING The 182034PC Etch Resist Black is formulated to be press ready. Add only enough ink to the screen to be able to print for 5-10 minutes. Add additional ink in small increments throughout the print run to maintain screen stability. Thoroughly mix the ink prior to printing.
 Maintain ink temperature at 65°-90°F (18°-32°C) for optimum print drying performance. Lower temperatures increase the ink viscosity, impairing both flow and drying. Elevated temperatures lower the ink viscosity, reducing print definition, film thickness and opacity. Pretest to determine optimum printing performance for a particular set of ink, substrate, screen, press, and drying variables/conditions.

**DRYING/
CURING** Depending upon specific oven and curing conditions, this resist should cure at 200°F (93°C) from 10 to 60 minutes. The Resist will also air dry, but actual testing has to be performed for acceptable hardness.
 Good air circulation is necessary to remove the vaporized solvents.

ADDITIVES All additives should be thoroughly mixed into the ink before each use. Prior to production, test any additive adjustment to the ink.
Reducer: Use PA7 Thinner to reduce the viscosity of the Resist. Add up to 10% by weight.
Retarder: Use PA8 Retarder or 5550 Retarder Thinner to improve on screen stability in hot, humid production conditions. Add up to 10% by weight.

CLEAN UP *Screen Wash (Prior to Reclaim):* Use IMS202 Universal Graphic Screen Wash, IMS201 Premium Graphic Screen Wash or 2555 Screen Wash.
Press Wash (On Press): Use IMS301 Premium Graphic Press Wash or 2555 Screen Wash.

STORAGE Store tightly covered at temperatures between 65° -90°F (18° -32°C). Ink taken from the press should not be returned to the original container; store separately to avoid contaminating unused ink.

GENERAL INFORMATION

INK HANDLING All personnel mixing and handling this product must wear gloves and eye protection. Clean up spills immediately. If ink does come in contact with skin, wipe ink off with a clean, dry, absorbent cloth (do not use solvent or thinner). Wash the affected area with soap and water. Consult the 182034PC Etch Resist Black Material Safety Data Sheet for further instructions and warnings.

PACKAGING The 182034PC Etch Resist Black is available in gallon containers.

PACKAGING Additives/Reducers are available in gallon containers.
Cleaners are available in 1-gallon, 5-gallon and 55-gallon containers.

Stock Number	Additives/Reducers	Stock Number	Clean Up
PA7	Thinner	IMS201	Premium Graphic Screen Wash
PA8	Retarder	IMS202	Universal Graphic Screen Wash
5550	Retarder Thinner	IMS301	Premium Graphic Press Wash
		2555	Screen Wash

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®.

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

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