

NSC61 (formerly 6002050584) IR Transmitting Black is formulated to adhere to transparent polycarbonate, pre-treated polyester and acrylic. The NSC61 is compatible with the 8400 Series ink system.

The ink allows high transmission at wavelengths starting from 700 nanometers and longer. The ink exhibits good opacity with low visible light transmission. Transmission efficiency may be affected by the ink layer and addition of additives to the ink. Spectrometer measurements may vary. Thorough testing is necessary before any production run.

**SUBSTRATES** Polycarbonate, pre-treated or primed polyester, acrylic

## 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** 200-305 threads per inch (78-120 threads per centimeter) monofilament polyester mesh or stainless steel mesh for most applications

**STENCIL** Solvent resistant direct emulsions and capillary films

**SQUEEGEE** 70-80 durometer polyurethane squeegee

**COVERAGE** 1200-1800 square feet (111-167 square meters) per gallon depending upon ink deposit

**PRINTING** May be used directly from the container. See Additives Section for thinners and other additives which may be added if necessary.  
To maintain on-screen stability, add additional ink in small increments throughout the print run. Thoroughly mix the inks 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** Conveyorized dryers set at temperatures of 150°F - 190°F (66°C - 88°C) will dry the ink in 30 to 40 seconds.  
Good air circulation is necessary to remove the vaporized solvents. Multiple layers of ink may require longer drying times than a single layer.  
Block resistance should be carefully tested prior to stacking printed pieces.

**ADDITIVES** All additives should be thoroughly mixed into the ink before each use.  
*Reducer:* Use RE195 Thinner/Screen Wash to reduce the viscosity of the ink. Add up to 15% by weight. RE195 may also be used to wash ink from the screen.  
*Retarder:* RE196 Retarder may be added up to 15% by weight; or in combination with RE195 Thinner/Screen Wash up to 15% by weight depending on production environmental conditions.  
*Adhesion Promoter:* NB80 Adhesion Promoter may be added up to 4% by weight to enhance adhesion to some films. The addition of NB80 will reduce the pot life of the mixture to 4-8 hours.  
The recommended sequence for adding additives is: thinner and/or retarder first and the catalyst or adhesion promoter last. Mix thoroughly.  
The addition of any additive may affect transmission properties; test thoroughly before production.

**CLEAN UP**

Screen Wash (Prior to Reclaim): Use IMS201 Premium Graphic Screen Wash.  
Press Wash (On Press): Use IMS301 Premium Graphic Press 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 these products 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 Material Safety Data Sheet for further instructions and warnings.

**ADHESION TESTING**

Cross hatch tape test – use a cross hatch tool or a sharp knife to cut through ink film only; then apply 3M #600 clear tape on cut area, rub down, wait for 1 minute and rip off at a 180 degree angle. Ink should only come off in actual cut areas.

**PACKAGING**

NSC61 is available in gallon containers.

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

Stock Number	Additives/Reducers	Stock Number	Clean Up
RE195	Thinner (gallons only)	IMS201	Premium Graphic Screen Wash
RE196	Retarder (gallons only)	IMS301	Premium Graphic Press Wash
NB80	Adhesion Promoter (liters only)		

*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, these products are formulated to contain less than 0.06% lead. If exact heavy metal content is required, independent lab analysis is recommended.

Nazdar Worldwide Headquarters  
 8501 Hedge Lane Terrace, Shawnee, KS 66227-3290 USA  
 Toll Free: 866.340.3579 or Tel: 913.422.1888 Fax: 913.422.2296  
 e-mail: [custserv@nazdar.com](mailto:custserv@nazdar.com)

Nazdar Limited  
 Barton Road, Heaton Mersey, Stockport, England SK4 3EG  
 Tel: + (44) 0.161.442.2111 Fax: + (44) 0.161.442.2001  
 e-mail: [technicalservicesuk@nazdar.com](mailto:technicalservicesuk@nazdar.com)

<http://www.nazdar.com>