

# UVNT 6000 SERIES

## UV Curing Notation Inks

REVISION No 3  
ISSUE DATE: 30/01/2008

### PRODUCT CHARACTERISTICS

The UVNT6000 series is a range of high opacity UV curable legend inks, ideal for marking boards and identifying component placement. The inks are 100% solid systems, eliminating mesh drying, and each can be cured without the need to stove at elevated temperatures.

UVNT6000 series inks show excellent adhesion to all the laminates used in the manufacture of rigid printed circuit boards as well as the soldermask types. The high chemical and solvent resistance properties of the 6000 series making them suitable for the most exacting specifications and they may be used on both sides of the board. The cured prints show excellent resolution and definition, even on fine detail.

### STANDARD COLOURS

UNVT6000 white  
UNVT6000 yellow  
UNVT6000 blackUVNT6000W  
UVNT6000Y  
UVNT6000B

### BOARD PRE-TREATMENT

No special pre-treatment is required apart from removal of oils and greases.

### VISCOSITY

The viscosity/rheology properties of the 6000 series are designed to give prints with optimum definition.

### MESH MATERIALS

90-120 meshes per cm monofilament polyester are recommended for normal circuit board use.

## **STENCIL SELECTION**

Capillary or emulsion stencils giving 8-12 microns proud of the mesh.

## **SQUEEGEE**

All types are suitable, but 75-85 shore hardness polyurethane is recommended.

## **CURING**

Curing the ink is achieved by passing the printed boards through a mercury vapour lamp unit at the energy levels suggested below. The exact requirements will depend on the lamp used.

UVNT 6000W	White	1500-2500mJ
UVNT 6000Y	Yellow	2500-3500mJ
UVNT 6000B	Black	2500-3500mJ

## **ADHESION**

When using UVNT 6000 series on UV solder mask (e.g. UVSR5000), or thermally cured soldermask (e.g. SEG 520) better adhesion can be obtained by partially curing the mask before applying the ink. When applying UVNT 6000 ink to LPI soldermask (e.g. Technimask), it may be desirable to do so before the final cure.

## **SCREEN CLEANING**

General Purpose or Water Miscible Screenwashes.

## **PACKAGING**

UVNT 6000 series is available in 1 and 5kg containers.

## **SHELF LIFE**

More than 12 months in sealed containers. Containers must be kept away from sources of heat and from direct sunlight.

Detailed Health and Safety data sheets are available on request.