Holders Technology

The new Generation of Diazo Film CIMTRANS D-18

CIMTRANS D-18 are advanced diazo photo tools with technical properties beyond CIMTRANS DP-II which has been in use as standard diazo photo tool all over Europe for many years.

Compared to competitive diazo tools D-18 has a number of advantages such as excellent thermal stability, higher resolution, and improved edge sharpness due to thinner, homogenous emulsion. A multi laminate bag provides better moisture protection and a convenient flap for resealing.

Unlike silver halide films D-18 can be handled in room light for brief periods and is processed using ammonia vapours and moderate heat $< 65 \, \text{C}$.

CIMTRANS D-18 do absorb little heat during exposing and imaging, thus remain sizes

D-18 is sensitive to UV/violet radiation (390 nm peak sensitivity). Mercury vapour lamps are typically used for exposure.

A conventional diazo developer (e.g. HT CIMATEC TEM 22 WP) can be used for processing. Most units employ aqueous ammonia (20-23° Baumé, 22-28 % ammonia) with a chamber temperature of approx. 65 °C. The amber image colour can make a visual density determination difficult. For this reason we recommend to pass D-18 through the developer twice to assure complete development. A diazo print cannot be overdeveloped. The D-18 print can be used immediately after processing, no other finishing is required.

The dye image provides a high UV density coupled with visual see through. This feature provides opacity for resist exposures and yet allows for visual registration. D-18 features excellent dye stability which allows for multiple exposures as a photo tool.

Technical Benefits

- · Positive working diazo film
- Manufactured under DIN ISO 9000
- Room light use
- · Quick and simple exposure and development
- Wide spread processing windows
- Retouchable with Kimoto Super-Pake retouching pens
- Excellent dimensional stability
- Very high resolution and edge sharpness
- Hardened image layer for multiple exposures of solvent based liquid resists
- Very high image density > 4,3 UV
- Very low see through density < 0,10 UV
- Excellent visual see through < 0,06
- Translucent image for visual registration

- Notch right hand top = emulsion side top
- Soft matting for easy processing in vacuum frame and for reducing Newton rings
- Antistatic surface
- Multi laminate, metalized bag exceeds shelf life up to 12 months

CIMTRANS D-18-Types

- D-18-M: matted emulsion side, recommended for exposing liquid solder masks
- D-18-G: glossy emulsion side, recommended for exposing dry resists

Economical Advantages

- CIMTRANS D-18 is very economically priced
- · Easy and quick processing at room light
- · Quick registration
- · Long shelf life without loss of quality
- Many exposures of solder masks. Customers report of 200 and even more runs per film!

Sizes and Packaging

Size in mm	Sheets per Box
300 x 400	100
405 x 508	100
457 x 610	100
508 x 610	100
508 x 660	50
610 x 762	50
660 x 813	50
Special sizes and rolls on request	

Technical Data

For further information please refer to "Product Usage Information CIMTRANS D-18" and "Diazo-film-Technology"

Accessories

- · Retouching pens
- Temperature labels
- Stouffer step wedges
- Hydrometer
- CIMCLEAN DTS-Dust-Transfer-Systems

The above statements are based on our present knowledge. Our statements should not be interpreted as a guarantee of characteristics. The use of our products by our customers is subject to different conditions, therefore none of our customers are relieved of the responsibility of testing our products by themselves. A liability for consequential damage will not be accepted in any case. For damage resulting from the use of this information we can only be held responsible if there is evidence of malice or negligence on our part. This data sheet replaces any previous data sheets.

General safety information

- Only use the product for applications described in the product data sheet
- The product is intended for industrial use only
- The product is not suitable for food industry
- The product must not be eaten
- In case of fire noxious fumes or smoke can be generated