

PRODUCT DESCRIPTION

Developer K70 is a highly concentrated solution of potassium carbonate designed for development of all aqueous dry film resists and photoimageable solder masks.

Developer K70 is economical to use and easy to handle.

With wide operational parameters and high dry film capacity (1 Litre of concentrate will develop 18 m² of 40 micron thick dry film) it provides excellent development latitudes.

Consistent developing times are obtained throughout the recommended operating life of the solution.

Benefits:

- More concentrated than most common developer solutions
- Long life
- Consistency of developing time
- Low operating temperatures
- Very low bicarbonate content

PHISICAL PROPERTIES

Form	Colourless
pH	> 13
Density	1.480 – 1.520 g/cm ³

MAKE-UP PROCEDURE

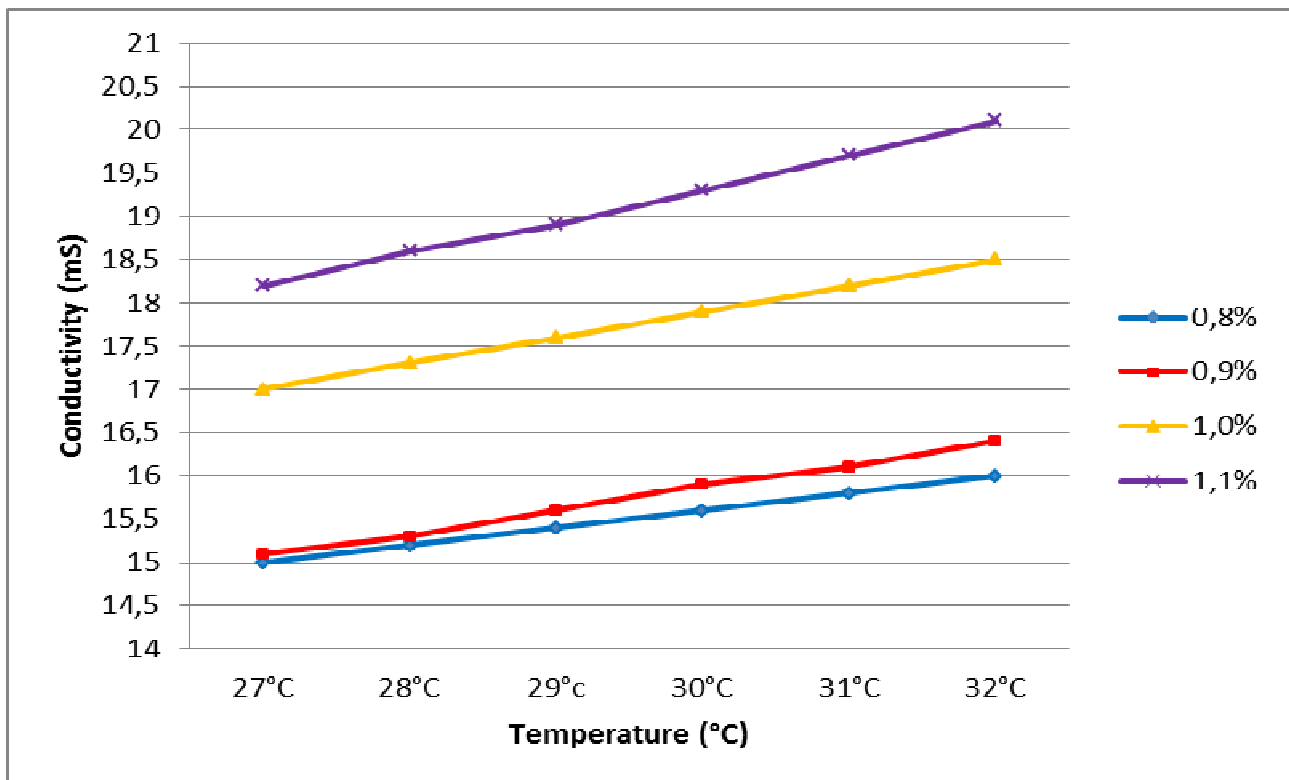
Component	Quantity
DI Water	98.7%
Developer K70	1.3%

OPERATING PARAMETERS

Parameters	Range	Optimum
Concentration K₂CO₃	0.8 – 1.0%	0.9%
pH	10.3 – 10.9	10.6
Temperature	27 – 32°C	30°C
Contact time	20 – 60 seconds	

If operation of Developer K70 produces excessive foaming, Antifoam C should be added in increments of 0.1 ml per litre sump volume, until foaming is reduced to an acceptable level.

CONDUCTIVITY



*: the developing solution has been made with DI water.

ANALYSIS PROCEDURE

Determination of total carbonate

Equipment

- Pipette
- 50ml burette
- 250ml Erlenmeyer flask

Reagents

- HCl Solution 0.1N
- Methyl Orange Indicator

Procedure

1. Pipette 10ml of working solution into a 250ml Erlenmeyer flask.
2. Add 100ml of DI water.
3. Add 3-4 drops of Methyl Orange Indicator.
4. Titrate with HCl 0.1N to a pink end point.

Calculation

g/l of Total Carbonate = ml HCl * 0.69

MAINTENANCE

Add fresh Developer K70 to maintain the Total Carbonate at make-up concentration.

To increase the total carbonate concentration by 0.1% add 1.3 ml per litre of sump volume Developer K70 solution.

EQUIPMENT

Equipment	PVC, PP, PE, Stainless Steel
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PACKAGING

25 litre or 200 litre polyéthylène drums or 1000 litre polyéthylène tanks.

STORAGE

Only store Developer K70 in original containers, upright, away from direct sunlight and in a dry area at 10 – 30°C.
Keep container closed when not in use.

HANDLING PRECAUTIONS

Contains alkaline ingredients that are irritating to the skin and eyes.

Avoid contact with eyes, skin and clothing, do not ingest.

READ MATERIAL SAFETY DATA SHEET PRIOR TO HANDLING THIS PRODUCT

In case of order please indicate this code:

Developer K70

F78010

The information stated in this Data Sheet regarding the use of materials is based upon experience under laboratory controls. Elga Europe makes no guaranty or warranty, express or implied, to such use, handling or possession of such materials, or of the application of any process described in our bulletins of the results sought to be obtained, whether in accordance with the directions or claimed so to be. Any information or statements contained herein are expressly made subject to the foregoing provisions and the terms and conditions embodied in our invoice covering such materials with are to be deemed part herein. The publication hereof describing any process is not to be deemed not taken as license to operate under, nor recommendation to infringe, any patent.

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Any such special or particular description shall be taken only as the expression of seller's opinion in that behalf. The seller does not give any warranty as to the quality (save that the goods are of merchantable quality), state condition fitness of the goods or use to which the goods may be put.

Claims on account of weight, loss of or damage to the goods in transit (so far as seller is liable) shall be made in writing to the seller within the period of 30 days of receipt thereof.

No claim shall be entertained after the expiration of the appropriate period mentioned above and the seller's liability by reason of any such claim shall not in any event the purchase price of the goods in respect of which a claim is made. Goods shall not be returned to the seller without the seller's express written permission.

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