

Graphic Arts Chemicals: Lith



Novolith Lith Developer is a 2 part (A+B) liquid concentrate for manual and machine processing of graphic arts lith films

- High quality, half tone and line work results with all makes of lith film
- Suitable for the processing of all lith camera and scanner output
- Highly stable Developer - long dish and tank life
- Suitable for consecutive, fine line and still bath techniques
- Replenishable with QUALIDOT two part replenisher

Qualidot Lith Replenisher is a 2 part (A+B) liquid concentrate for use in the machine processing of graphic arts lith films

- Specifically formulated for high quality machine processing of lith films used for line, screen and contact applications
- Economical replenishment rates
- Highly stable developer for initial filling of machine tank prepared from NOVOLITH Lith Developer

Novolith Developer	Compak to Make	40L	160104
Qualidot Replenisher	Compak to Make	30L	160905
Grafix Fixer & Replenisher		2x5L	160201
B&W Universale Hardener		6x500ml	181102
Photographic Processor Cleaner		2x2x20L	161316

PROCESSING SPECIFICATIONS - Machine Processing

Product	Processing Time (sec)	Recommended Temp(°C)	Qualidot Replenisher Addition Rate (100% exposed)
Novolith A + B	60 - 120	27° ± 3°	500 ml/sq metre
Grafix Fixer	30 - 90	27° ± 3°	300 ml/sq metre
Wash	30 - 90	27° ± 3°	5-10L/min

*recommended starting point

PROCESS SPECIFICATIONS - Manual Processing

Application	Recommended Temp (°C)	Processing Time (Sec)	Throughput* (sq metres/litre)
Half tone & Line Work	20° ± 2°	150 -210	0.5

Consecutive Development: Manual Processing

When using a tray of **Novolith Lith Developer** for processing consecutive films exposed to line subjects, it will be necessary to extend the development time for later films in the series to compensate for the loss of solution activity. Although the specific contrast value attained will be less than optimum, provided that film throughput is kept within the limits listed above no undue loss of quality will result.

Batch Development: Manual Processing

For some categories of ordinary line work reproduction the batch processing of several films is practical in **Novolith Lith Developer**. After making a test negative to establish the correct exposure for development, the exposure should be reduced to permit a longer development time to be employed at 20°C.

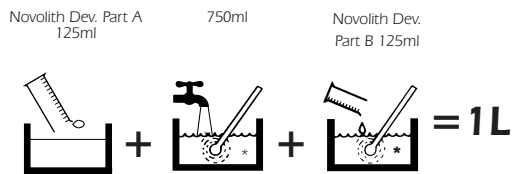
This allows for greater latitude and ensures an even background of maximum density throughout the entire batch of films.

Machine Processing:

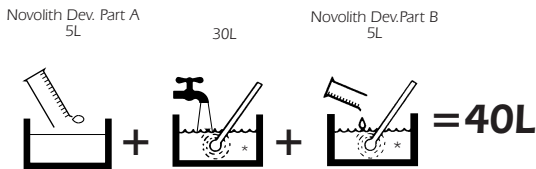
Novolith Lith Developer can be utilized for the preparation of the solution required for the initial filling of the developer tanks of lith film processing machines. Thereafter, the activity of the developer bath can be maintained by the addition of the **Qualidot Replenisher**

Novolith

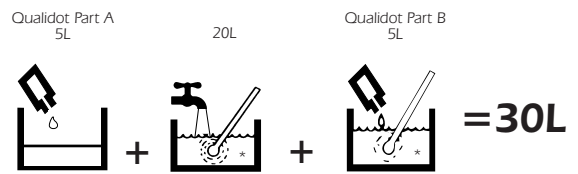
Novolith: Dilute 1 + 6 + 1



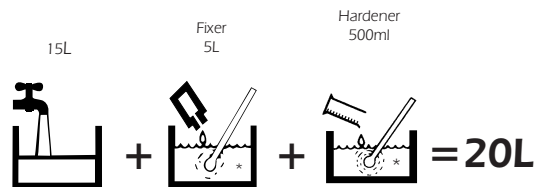
Novolith: Dilute 1 + 6 + 1



Replenisher: Dilute 1 + 4 + 1



Grafix Fixer & Replenisher and B&W Universal Hardener



NOTE: Extreme care should be taken to avoid contamination of the Novolith and Qualidot solutions with fixer since even small amounts of contamination can have a serious adverse effect upon image quality.

Fixation

After completion of the development stage, the film and paper materials should be treated in a rapid working fixer such as **GRAFIX Fixer & Replenisher**, with or without the addition of the appropriate hardener. To improve drying and reduce jamming when machine processing, the addition of **B&W UNIVERSAL Hardener** is recommended.

STORAGE OF CHEMICALS:

- **Concentrates** - All of the processing system concentrates have a normal storage life of at least 12 months, when held in unopened containers under steady temperature conditions 13°-18°C. However, a storage temperature below 5°C should be avoided as some crystallization may occur.
- **Working Solutions and Replenishers** - For manual use, no more than one days requirement should be prepared at a time. Machine tank solutions should not be allowed to stand unused for more than one week, or the activity will be reduced by aerial oxidation. No more than one week's supply of any of the replenisher solutions should be made up at a time. Replenisher solutions should be kept covered with lids to reduce evaporation, oxidation and contamination.
- **Safe Use of Processing Chemicals** -All chemicals should be kept out of reach of children. Refer to labels on the box and to the Safety Data Sheet for precautionary information.

Protective clothing, including gloves and face/eye protection should always be worn when handling chemicals. Contact our Technical Services Department or your local representative to determine which combination of chemicals is best suited for your use.

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