

Universal developer

A reliable tool for precise development of photoresists, photographs and positive plates. Our universal developer boasts versatile applications. Its unique formula, free from sodium hydroxide (NaOH), minimizes the risk of skin irritation and damage to delicate materials. This safe, gentle solution ensures sharp, well-defined contours and even performance, essential in lithography, PCB manufacturing, and microlithography. With outstanding chemical stability and thermal resistance, the developer maintains high efficiency and durability even under demanding conditions. Precision results are its hallmark!

Product features:

- ✓ sharp and precise contours,
- ✓ free from sodium hydroxide (NaOH),
- ✓ easy to use,
- ✓ versatile applications.

Applications:

- ✓ creation of precise electronic circuits and printed circuit boards (PCB),
- ✓ photography and microlithography.

Physicochemical properties

Appearance	White fine crystalline powder
Bulk density	~0.85 g/cm ³
Melting temperature	~72.2°C
pH	12-13
Whiteness	min. 80%
Iron content	max. 100 ppm
Na ₂ O content	28.5-30%
SiO content	27.8-29.25%
Insoluble substances in H ₂ O	max. 0.05%
Shelf life	3 years



Compatibility:

The universal developer is safe and compatible with most materials used in lithographic processes and electronic circuit production. Its formula minimizes the risk of damage to working surfaces, and the absence of sodium hydroxide (NaOH) makes it gentler on the skin and materials, such as delicate photoresist coatings or positive plates.

Application method	
Immersion in solution	Yes

Usage instructions:

Restricted to professional users. Read safety data sheet carefully prior to use.

To prepare the developer solution, measure 110 g of the product and dissolve it in 2 liters ($\pm 0,5$ L) of water at approximately 50°C, stirring until fully dissolved. Allow the solution to cool to room temperature before use. The development process involves immersing a positive plate or a photoresist-coated element in the prepared solution for 30 to 60 seconds. Do not exceed 2 minutes to avoid contour damage. If necessary, perform tests and adjust the concentration. After development, rinse the plate thoroughly in clean water to remove any remaining developer residues, then leave it to dry in a dust-free environment. Correct proportions and development time ensure precise and clear results. In case of contact with eyes or skin, rinse immediately with plenty of water.

Package	
String bag	22 g (ART.AGT-087) - 15 pcs.*
Plastic bottle	110 g (ART.AGT-326) - 4 pcs.*

*Quantity of pcs. in a bulk package.

Storage:

Store in tightly sealed containers in a dry, cool, and well-ventilated place. Keep away from heat and ignition sources. Do not store with acids, oxidizers, or metals. Protect from moisture.

Technical support:

AG TermoPasty provides technical support, answering questions about the technical specifications and applications of our products. Please contact us via email at info@termopasty.pl.

Note:

The data presented in this document reflects our current level of knowledge and describes the typical properties and applications of the product. However, the responsibility for determining its suitability for specific applications lies with the user. AG TermoPasty is not liable for the results of product use, as the conditions of application fall beyond our control.

