

Alkalon® 500 | Technical Data Sheet

Product Information

Alkalon® 500 is a non-corrosive derivative of organic salts, used for economic basification of dye-baths. It has a buffer of around 11.20 - 11.50. This product was designed to have the benefits of sodium carbonate, and the necessary aggressiveness of caustic soda to break the 10.2-10.8 ceiling formed by bicarbonates.

This product is the direct substitute for Soda Ash and Caustic Soda.

- Liquid, one-step dosification to set pH
- Sets the right pH for dyeing reactivities
- Due to the high concentration, it does not change bath ratios.

Physical and Chemical Characteristics

Technical Data	Specs
Appearance	Opalescent to clear liquid
Ionic Character	No charge
Chemistry	Dipotasic phosphate
pH	11.5 - 13.5 @ 1% sol.
Density	1.1 - 1.7 g/ml

Application

Alkalon® 500 must be applied in your dye stage, in place of Caustic Soda, and Soda Ash. This process will substitute the presence of carbonates in the system.

We recommend the total dosification time of the **Alkalon® 500** does not exceed 45 mins, the progression will depend on the nature of the dye-stuff. The pH will rise slowly without increasing the temperature, thus preventing dye strikes. Using a buffered alkali like **Alkalon® 500** assures repeatability, and adds robustness to the process.

Usage Table:

Pastel Colors (0.5% - 2% color): 3.0 - 3.5 g/L
Medium Colors (2.0% - 4.0% color): 3.5g/L - 5.0g/L
Dark Colors (4.0% - 6.0% of color): 5.0g/L - 7.5g/L

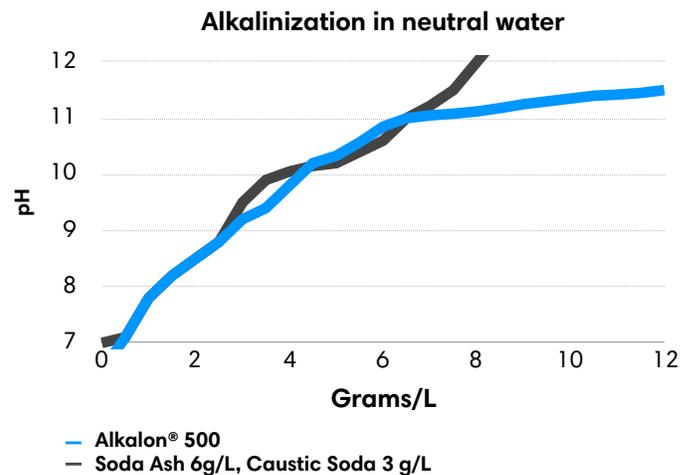
Conversion Table

Alkalon® 500 can be used in the following ways:

	Original Formula	Formula with NaOH	Formula only with Alkalon®
Soda Ash	6 g/L	x	x
NaOH 50%	3 g/L	3g/L	x
Alkalon®	x	3g/L	7g/L

In this table, it can be seen that **Alkalon® 500** replaces both traditional alkalinizers (NaOH and Soda Ash).

The dosing curve should be slow, approx. 45 mins, with 90% progression, since the most critical moment of a curve is before reaching pH 9.0.



Storage

This product can be stored up to 12 months without problem, we recommend not to exceed the temperature range between 4°C - 40°C while storing. If the product is kept beyond its manufacturing date of 12 months, run a stability test to ensure product stability.

Packaging

- 1000 kg tote
- 10-20 TM pipes

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The above recommendations are based on extensive results done in the most professional manner. The user must try this product industrially first, to verify if the product is viable for further use. The technical information and application advice given in this **Novachem** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. These results however verified and certified by a third party, do not hold us liable in terms of performance deviations. These tests have been conducted in controlled environments. The user is responsible for checking the suitability of products for their intended use.

For further information and to request samples, please visit **novachemgroup.com** where a qualified technician will assist you.