

# ACID+

Acid sanitizing  
regeneration agent  
for cationic resins

# ALCA-

Detergent with a  
sanitizing action  
for cationic resins

## pH-Stab

Sanitizing regeneration agents for

**Packaging:**

**ACID+**

25 kg net drums. Prod. code 003401

**ALCA-**

25 kg net drums. Prod. code 003402



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# ACID+

Acid sanitizing regeneration agent for cationic resins

# ALCA-

Detergent with a sanitizing action for cationic resins

## Sanitizing regeneration agents for pH-Stab

### ACID+

Acid sanitizing regeneration agent for cationic resins

ACID+ is used for the regeneration and acid sanitation of pH-Stab; its action is based on the exchange of ions H+ caused by the active sulfonic groups of the resin. It should be used after each exchange cycle with pH-Stab to regenerate the resin and to bring it again in condition of exchanging ions H+ with the wine.

The special mixture of strong acids gives the sulphuric acid a better regeneration action, thanks to the improvement of the cations exchange among the spheres and the solution.

#### Technical characteristics

Physical appearance: viscous liquid  
pH (1% solution): 1,3 ± 0,3  
Relative density at 20°C: 1,3 ± 0,2

The here indicated chemical-physical characteristics represent the typical product data drawn from the analysis carried out on it. These data are not a specification.

After 5 acid regenerations, we suggest an alkaline washing with ALCA-

### ALCA-

Detergent with a sanitizing action for cationic resins

Liquid alkaline formulation for the cleansing of cationic resins; it is activated with phosphonates for a better bio-releasing action.

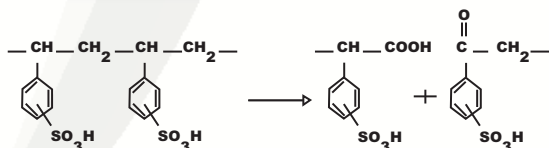
After about 5 acid washings and following utilizations in the wine, some organic residues could deposit on the surface of pH-Stab; these residues would be removed with difficulty with the only acid washing.

The stratification of such substances on the surface of the spheres would cause a gradual reduction of the exchange activity.

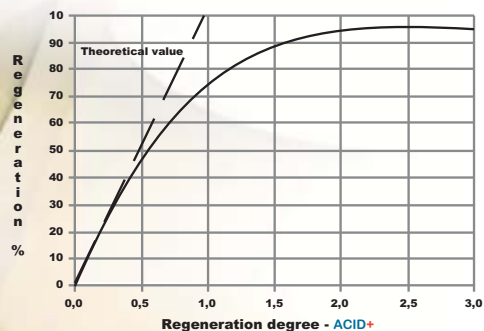
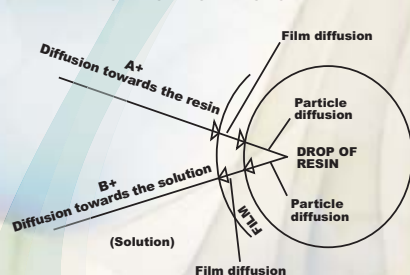
#### Technical characteristics

Physical appearance: opalescent liquid  
pH (1% solution): 12,1 ± 0,2  
Relative density at 20°C: 1,32 ± 0,2

The here indicated chemical-physical characteristics represent the typical product data drawn from the analysis carried out on it. These data are not a specification.



#### SCHEMATIC DESCRIPTION OF THE ION-EXCHANGE REACTION



#### Modalities of regeneration after each utilization

Operation	Step	Product	Concentration/Water %
After each utilization	Rinsing	Demineralsized water	2 times the volume of pH-Stab
	Regeneration	ACID+	1,5 times the volume of total solution 17,5% of regeneration agent
	Washing	Demineralsized water	5 times the volume of pH-Stab

#### Acid regeneration of 5 kg of pH-Stab

##### 1st step:

- Rinse with 15 litres of demineralised water
- Leave in immersion and recirculate for about 1 hour

##### 2nd step:

- Prepare the following solution:
- kg 1,95 of ACID+
- Add 9,3 litres of water to obtain a total of 11 litres of regeneration solution
- Leave in immersion or recirculate for 1 hour

##### 3rd step:

- Rinse with 37,5 litres of demineralised water for about 30 minutes

#### Modalities of washing after 5 utilizations

Operation	Step	Product	Concentration/Water %
After 5 utilizations	Rinsing	Demineralsized water	2 times the volume of pH-Stab
Alkaline washing	Organic removal	ALCA-	2 volumes of water 6% of detergent
	Washing	Demineralsized water	3 volumes of pH-Stab
	Regeneration	ACID+	1,5 times the volume of total solution - 17,5% of regeneration agent
	Washing	Demineralsized water	5 times the volume of pH-Stab

#### Regeneration after 5 utilizations of 5 kg of pH-Stab

##### 1st step:

- Rinse with 15 litres of demineralised water
- Leave in immersion and recirculate for about 1 hour

##### 2nd step:

- Prepare the following solution:
- kg 0,9 of ALCA-
- Add 15 litres of water
- Leave in immersion or recirculate for 1 hour

##### 3rd step:

- Rinse with 22,5 litres of demineralised water
- Leave in immersion or recirculate for 30 minutes

##### 4th step:

- Rinse with 15 litres of demineralised water
- Leave in immersion and recirculate for 1 hour

##### 5th step:

- Prepare the following solution:
- kg 1,95 of ACID+
- Add 9,3 litres of water to obtain a total of 11 litres of regeneration solution
- Leave in immersion or recirculate for 1 hour

##### 6th step:

- Rinse with 37,5 litres of demineralised water for about 30 minutes

#### Important note:

After each cycle completely drain the utilized solutions from the resins. After the rinsing of the alkaline and acid washings, if necessary check the pH-value with a pH-meter or indicator strip: as for the detergent with ALCA- it should be lower than pH 8, as for the regeneration with ACID+ it should be higher than pH 2,5-3.