



Fining Agent

SIL FLOC

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ULTRA-PURE, 30% SILICON DIOXIDE SOLUTION

COMPOSITION

Silica solution

GENERAL FEATURES

Appearance: whitish-gray, opalescent solution, odorless.

Stable, pure silicon dioxide aqueous dispersion.

SIL FLOC contains homogeneous negatively charged particles of silicon dioxide (uniform particle size 100-150). The ultra-fine dispersal pattern offers an enormous specific contact surface.

Solution pH 9.0 - 9.5.

SIL FLOC is stable at room temperature (> +10°C/50°F) and can be stored almost indefinitely.

APPLICATIONS

SIL FLOC works best when used in conjunction with gelatin (Bloom value 80-100) such as **PULVICLAR S** or **HYDROCLAR**. This approach gives a fast and thorough clarification with minimal sedimentation which is more compact and heavier than other traditional clarifiers. The must or wine treated is easier to filter and has a lower amount polyphenols subject to oxidation.

SIL FLOC is particularly suited to treating white must in which clarification must take place quickly and thoroughly; it is also effective in the treatment of sweet filtrates.

SIL FLOC is also used to treat fruit juices, in conjunction with **PULVICLAR S**.

DOSAGE

40-100 g/hL for white must

25-75 g/hL for sweet wines and filtrates

50-100 g/hL for juices

Since the product is always used together with gelatin, dosages and proportions should be decided on the basis of preliminary clarification tests in the laboratory.

The ratio is generally one part gelatin and 10-15 parts silica sol.

INSTRUCTIONS FOR USE

Disperse **SIL FLOC** evenly directly in the must or mash to be treated.

SIL FLOC must be added before the gelatin. If other clarifiers are used, such as coal, bentonite, etc., these should be added and allowed enough time to act before adding **SIL FLOC**.

Clarification with **SIL FLOC** should be carried out at temperatures of at least 12°C (54°F).

PACKAGING AND STORAGE

1000 kg tank

250 kg jug

25 kg jug

10 kg jug

1L bottle

Keep the product at temperatures of at least 10°C (50°F).

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The indication supplied are based on our current knowledge and experience, but do not relieve the user from adopting necessary safety precautions or from responsibility to use the product properly.



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MAIN PHYSICAL-CHEMICAL FEATURES

pH:	9 – 10.5
Density (g/L)	1210 – 1225 at 20°C
Diameter (nm):	10 +/- 2
Dry residue (%):	30 min.
Turbidity (NTU):	< 100
Heavy metals (mg/kg Pb):	< 10
Arsenic (mg/kg As):	< 3
Lead (mg/kg Pb):	< 5

These values were obtained using either Official or Esseco methods.
Further information not indicated here will be supplied upon request.

Product approved for winemaking by the TTB.

Legal Limit: Use must not exceed the equivalent of 20 lb/1,000 gallons (240 g/hL) of colloidal silicon dioxide at 30%.

Product approved for winemaking, in accordance with:
EC 1493/99

The average density of SIL FLOC is 1.170 kg/dm³.