

NALCO® 1072

Collidal Silica Fining Agent



Product Bulletin

PRODUCT BENEFITS

- Provides the best combination of highly active fining capabilities with high concentration of active ingredients. Rapid clarification of haze can be achieved with relatively low levels of water addition.
- Can effectively remove phenolics and peptides in fruit wines and juices.
- Easy to measure and use. Uniformly dispersed liquid — no mixing required.
- Consistent quality and purity. Manufactured to stringent quality specifications, **NALCO 1072** meets the specifications for amorphous silicon dioxide as set forth in the Food Chemical Codex. **NALCO 1072** may be used for the treatment of wine and juice in accordance with Paragraph 240.1051 of BATF.

PRINCIPAL USES

NALCO 1072 acts as a flexible fining agent for wine and juice. It is recommended for use in:

- Fining applications requiring a high degree of fining action, where water addition may be a limitation
- Beverages usually difficult to clarify by other agents
- Fruit wine clarification

GENERAL DESCRIPTION

For a general description of chemical and physical properties, refer to the **NALCO 1072** Material Safety Data Sheet.

DOSAGE

For clarification of fruit juices and wines, use **NALCO 1072** in conjunction with gelatin to maximize removal of phenolic-peptide haze complexes. Add gelatin, mix, and then add **NALCO 1072**. Use a gelatin of low Bloom value. Suggested initial dosage: 5 pounds silica (1.65 gallons **NALCO 1072**) and 0.5 pounds gelatin (per 1000 gallons beverage). See table for silica to **NALCO 1072** dosage conversions.

When used in conjunction with bentonite clay, initially decrease normal clay treatment level by 25% and substitute with equal weight of silica. Add **NALCO 1072**, mix, and then add clay.

In complex fining situations, it may be necessary to use a combination of **NALCO 1072**, clay and gelatin.

In general, gelatin should *not* be added last, to avoid haze formation.

For specific treatment levels and order of addition, run a small scale fining test, or consult with your Nalco representative for recommendations.

HANDLING AND STORAGE

Read the label and Material Safety Data Sheet for complete handling information before using this product. Consult with your Nalco representative for appropriate handling equipment. **NALCO 1072** may be stored for up to one year. Prevent exposure to temperatures below 32°F (0°C), as freezing causes irreversible precipitation of the silica and will affect performance.

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INSTRUCTIONS FOR USE

NALCO 1072 and other fining agents must be added separately to the beverage. To maximize performance of **NALCO 1072**, add slowly and uniformly with good mixing. Avoid local concentration of the product upon addition.

NALCO 1072 can be effective at many ratios with other fining agents. Since the requirements for fining any beverage can vary dramatically from lot to lot, season to season, it is recommended that small scale fining tests be conducted to determine optimum ratios and addition levels.

For your convenience, the following table has been developed to aid in your dosage calculations. The amount of water added as a result of the **NALCO 1072** treatment also is shown (product contains 85% water *by volume*).

The required volume of **NALCO 1072** also can be calculated from the following equation:

$$\text{Volume of NALCO 1072} = \frac{x}{3.02}$$

Where x = pounds SiO₂ per each 1000 gallons of beverage.

SiO ₂ lb/1000 gal. beverage	Volume of NALCO 1072		Volume of water contained in NALCO 1072	
	gal	oz	gal	oz
0.5	0.17	21	0.14	18
1.0	0.33	42	0.28	36
2.0	0.66	85	0.56	72
3.0	0.99	127	0.84	108
4.0	1.32	169	1.12	143
5.0	1.65	212	1.40	179
10.0	3.31	423	2.80	359
15.0	4.96	635	4.20	538
20.0	6.62	847	5.61	718

SHIPPING

Nalco products are shipped in various containers to include our unique PORTA-FEED® units or in bulk quantities. For specific information, contact your Nalco sales representative.

REMARKS

If you need assistance or more information on this product, please call your nearest Nalco Representative. For more news about Nalco, visit our Web site at www.nalco.com.

For Medical and Transportation Emergencies involving Nalco products, please see the Material Safety Data Sheet for the phone number.

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