



Clear Solutions USA

ClearSol CIP ETOH-GR Complete 20+

Technical Data Sheet

CONCENTRATED CAUSTIC CLEANER WITH GRAS APPROVAL FOR ETHANOL PLANT CIP CLEANING (UP TO 20+ GRAINS HARDNESS)

DESCRIPTION

ClearSol CIP ETOH-GR Complete 20+ is a formulated, 50% caustic concentrated cleaner which contains GRAS approved ingredients for ethanol plant CIP cleaning when used under normal operating conditions (see Formulation Tips). Compatible in up to 25 grains of water hardness, ClearSol CIP ETOH-GR Complete 20+ provides powerful technology for excellent fermenter tank cleaning.

When diluted to a 5-8% sodium hydroxide (NaOH) cleaning solution, ClearSol CIP ETOH-GR Complete 20+ provides plenty of cleaning power and can tolerate up to 25 grains (or 430 ppm) water hardness preventing scale build-up. These features greatly improve ethanol plant CIP systems by improving yield, lowering maintenance costs, reducing cleaning cycle times & production stops. This innovative, brand new technology exhibits the following attributes:

- GRAS approved ingredients for ethanol plant CIP cleaning of fermentors.
- Significantly improves ethanol plant CIP systems by improving yield, lowering maintenance costs, reducing cycle times & production stops.
- Controls hard water up to 25 grains (430 ppm) hardness, even in high-temperatures preventing scale build-up unlike using NaOH alone.
- Some ClearSol CIP ETOH-GR Complete 20+ residue may remain in the dried distillers grain which may be incorporated into animal feeds.

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FORMULATION TIPS

For best results ClearSol CIP ETOH-GR Complete 20+ cleaning solutions should be maintained between 5-8% sodium hydroxide (NaOH) for ethanol plant CIP cleaning of fermenters.

SPECIFICATIONS

Appearance	Clear, light amber liquid
Odor	Bland odor
Specific Gravity	1.49
pH (as is)	> 12.5

STANDARD PACKAGING

Available in 55-gallon drums, 275 & 330-gallon totes.

SHELF LIFE

ClearSol CIP ETOH-GR Complete 20+ has a shelf life of 2 years.

