



CONSULTANT LUBRICANTS, INC.

"The Solution is Science®"

University of Missouri Research Park
9 Research Park Drive
St. Charles, MO 63304-5685

Consultant Lubricants, Inc. has been developing custom lubricant formulations and manufacturing advanced metalworking fluids for over forty years.

K321-GEM Engine Block Cleaner

Neutralized - Non-Caustic Formula



Top 4 Pre-Treatment Cleaning Challenges... and the Solution!

- 1) Surface Contamination** - Dirt, oil, grease, wax and rust repel surface coatings and paint. Our pre-treatment cleaners prepare metal surfaces for uniform coverage of paint, coating or plating.
- 2) Prior Surface Coatings** - Primers, paint and other chemicals can prevent proper adhesion to metal surfaces. Complete and even removal is required to achieve adequate preparation for the following finishing stages.
- 3) Surface Static** - Electrostatic interference is a common challenge for metal surface adhesion. Thoroughly cleaning is required to have none or to have an even electrostatic charge.
- 4) Surface Defects** - Uneven surfaces or flaws in material consistency can be the cause of uncoated patches or gaps. Proper pre-treatment enables these areas to receive uniform coverage.

THE ADVENTURES OF GEORGE & RALPH

Ralph, How are the New Pre-Treatment Chemicals working?

Whatever chemicals they're using, people are treating me better.

I'm referring to the cleaners used to prepare metal parts for coating.

Well... I'm just saying kids can be mean!

CLI has developed pre-treatment formulas for every challenge!

Not necessarily challenges on the playground.



K321-GEM liquid cleaner concentrate is a formulated neutral pH product designed specifically for use in cabinet style recirculating parts washers, pretreatment systems and automatic scrubbing machines. The K321-GEM successfully replaces commonly high alkaline powdered base cleaners that contain caustic additives such as sodium and/or potassium hydroxide. This product contains NO phosphates, which are becoming more of an environmental discharge

concern. It is safe for use on all metals and alloys and provides excellent corrosion protection for the cabinet and machine components. K321-GEM is completely soluble in all proportions and is equally effective in hard or soft water.

price per gallon			
Call	For	Current	Pricing
1 GAL	5 GAL	55 GAL	275 GAL

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