

# RD 531

Alkaline Cleaner  
*Technical Data*

## GENERAL DESCRIPTION

**RD 531** is a silicate-free heavy-duty detergent for use in soak and ultrasonic cleaning systems. **RD 531** is to be used on steel, stainless steel, and copper alloys.

**RD 531** is especially effective in cleaning carbide cutting tools without cobalt leaching.

**RD 531** is excellent for removal of machining oils, polishing, and lapping compounds.

## NORMAL USE

This product is diluted with water before usage. Determine volume of tank before diluting.

For light-duty soil removal, mix **RD 531** at 3% to 5% with water.

For heavy-duty soil removal, mix **RD 531** at 8% to 12% with water.

Operating temperatures are 120° to 170° F.

## ADVANTAGES

1. Water based cleaner.
2. Biodegradable.
3. Amine Free.
4. Excellent removal of lapping, polishing, and drawing compounds.
5. Useful over a wide range of applications and operating conditions.
6. Excellent rinsability.

## NORMAL CONTROL

**Dropping Bottle Method** (Test Kit available from Chautauqua Chemicals Co. – Part No: 4195)

1. Take a sample of the **RD 531** solution from the bath with a beaker and allow to cool to room temperature.
2. Measure out 5 mL using the graduated sample bottle provided in the test kit.
3. Add 3 drops phenolphthalein indicator.
4. Add dropwise 0.12N sulfuric acid while counting the drops and swirling the solution.
5. Stop adding drops when color changes from pink to colorless.
6. Calculation: Percent Concentration of **RD 531** = Drops of 0.12N H<sub>2</sub>SO<sub>4</sub> x 0.42

**Free Alkalinity** (Equipment available from Chautauqua Chemicals Co.)

1. Pipette a 10 mL sample into a 250 mL Erlenmeyer flask and allow to cool to room temperature.
2. Add 25 mL of distilled water.
3. Add 5 drops of phenolphthalein indicator.
4. Titrate with 0.1N hydrochloric acid until color changes from pink to colorless.
5. Calculation: Percent Concentration of **RD 531** = mLs of 0.1N HCl x 5.0

**Refractometer** (Available from Chautauqua Chemicals Co.)

Calculation: Percent Concentration of **RD 531** = Refractometer Reading x 3.33

## HANDLING AND SAFETY CONSIDERATIONS

Consult MSDS sheet on this product for handling considerations, hazard information, and first aid procedures.

## OTHER INFORMATION

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