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LIQUID TANK DESCALER™

Operating Instructions

DESCRIPTION

LIQUID TANK DESCALER™ is a high strength concentrate designed to remove light or moderate rust and heat treat scale from steel surfaces prior to black oxide finishing, without forming a surface smut, like acid descalers often do. It can also serve to clean and descale process tanks and heating elements prior to re-charging with a fresh bath make-up. The product is a combination of caustic soda and powerful chelating agents, and operates at elevated temperatures, to remove rust and scale from part surfaces, after which the parts may be black oxide finished in the normal manner.

OPERATING CONDITIONS

Bath Make-Up 20-30% by volume.

Operating Temperature 190-205° F

Immersion Time for Part Derusting 10-20 minutes, depending on oxide buildup.

Dwell time for Tank Cleanout 4-24 hours, as needed.

CLEANING RUSTY PARTS

When used for derusting production parts, the normal process cycle is as follows:

- 1. **CLEAN** the surface in a solution of either PRESTO KLEEN® HP powdered cleaner, or SAFE SCRUB® ST liquid cleaner, operating at 150-170° F, 5-10 minute dwell.
- 2. **RINSE** thoroughly in clean water rinses; 30 second dwell.
- 3. **DERUST** by immersing parts in a solution of TANK DESCALER™, as shown above.
- 4. **RINSE** thoroughly in clean water rinses; 30 second dwell.
- 5. **PRIME/PREP** surface by immersing in a solution of OXYPRIME® Primer/Prep; Room Temperature; 1-5 minutes.
- 6. **RINSE** thoroughly in clean water rinses; 20-60 second dwell.
- 7. **BLACK OXIDE** in TRU TEMP[®] Black Oxide solution; 200-205° F; 15 minutes.
- 8. **RINSE** thoroughly in clean water rinses; 30 second dwell.
- 9. **SEAL** in appropriate Rust Preventive, such as DRI TOUCH® AMBER IRP2, or SHEATH® WS12 Soluble Oil. Allow parts to drain/dry.

DESCALING TANK WALLS

When used for cleaning/descaling a production tank, the normal procedure is as follows:

- 1. **DRAIN** the spent bath.
- 2. **MANUALLY SCRAPE** the tank walls and heating elements to remove as much of the scale and sludge as possible.
- 3. **RE-FILL** the tank about half full with water. Then, stir in the TANK DESCALER concentrate. Fill the tank to a level above the scale level. Heat up the solution to 180-200° F. Allow solution to soak for 4-24 hours, or until the scale is softened.
- 4. **DRAIN** the TANK DESCALER mixture and remove the remaining scale and sludge from the tank. Rinse the tank thoroughly with clean water.
- 5. MAKE UP FRESH PROCESS BATH in the normal manner.

PACKAGING

55 gallon plastic, non-returnable drums. Store in closed container.

Before Using This Product – Please Read, Understand and Follow all the Precautions shown on the Product Label and on the Safety Data Sheet.

The Safety Data Sheet can be found on our website: www.birchwoodtechnologies.com

Use Appropriate Warning Labels on any Container used to Store or Apply this Product.

<u>NOTE:</u> The information contained herein is provided in good faith and is believed to be correct as of the date below. However, Birchwood Laboratories LLC makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, Birchwood Laboratories LLC will not be responsible for damages of any kind resulting from the use of or reliance upon such information.

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