Applications
QUAKERCLEAN® NEUTRAL DE-RUSTER is a liquid neutral pH formulation specifically engineered to effectively remove various surface oxide defects without attacking the base metal or changing precision machined surface tolerances. Its organic chemistry does not contain any strong acids or bases. QUAKERCLEAN® NEUTRAL DE-RUSTER’s versatility offers additional benefits for applications where surface brightening is of interest, such as aluminum, copper and brass.

Benefits
- Versatility - Neutral pH is easy to handle, worker friendly, and safe on ferrous and non-ferrous metals and alloys.
- Cost Effective - Much less expensive to refurbish expensive parts rather than scrapping.

Customer Approvals
- Ford Tox. No. 186271

Fluid Maintenance
QUAKERCLEAN® NEUTRAL DE-RUSTER can be used in single or multi-stage applications. Effective results can be obtained through spray or immersion techniques. It should be immediately rinsed from surface with water after desired level of surface quality has been achieved. It is strongly recommended that a corrosion preventive be applied after rinsing and drying the highly active surface. Inability to do so may result in a quick return of oxide.

Concentration: 5 - 20% by Volume
Temperature: 70°F (21°C) to 140°F (60°C)
Contact Time: 15 - 30 minutes

Increasing any of these variables will enhance product performance.

Process Compatibility
To enhance process compatibility, use Quaker metalworking fluids and cleaners.

Packaging/Storage
QUAKERCLEAN® NEUTRAL DE-RUSTER is available in plastic drums (54 gal/621 lbs). All containers are filled to volume by weight.

This product has a shelf life of 12 months. Like most chemicals it should be stored out of direct sunlight in temperatures between 40°F (4°C) and 100°F (38°C).

Properties - Concentrate

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TYPICAL VALUE</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, Light Yellow</td>
</tr>
<tr>
<td>Pounds per gallon at 60°F</td>
<td>11.5 lbs/gal</td>
</tr>
<tr>
<td>Flash Point via COC</td>
<td>Boils at 212°F / 100°C</td>
</tr>
<tr>
<td>Odor</td>
<td>Soapy</td>
</tr>
<tr>
<td>Neat pH</td>
<td>7.5</td>
</tr>
<tr>
<td>Viscosity @ 60°F</td>
<td>20 cps</td>
</tr>
</tbody>
</table>

Prior to using this product, consult the Material Safety Data Sheet for instructions regarding safe handling and environmental issues. The information contained herein is based on data available to us and is believed to be accurate. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXpressed OR TO BE IMPLIED, REGARDING THE ACCURACY OF THESE DATA. THE RESULTS TO BE OBTAINED FROM THE USE THEREOF, OR THE HAZARDS CONNECTED WITH THE USE OF THE PRODUCT. Quaker Chemical Corporation assumes no liability for any alleged ineffectiveness of the product or any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is solely attributable to negligence on the part of Quaker Chemical Corporation.