



OAK KLEEN 302-LO

ACID CLEANER CONCENTRATE

APPLICATIONS	<p><i>OAK KLEEN 302-LO is a liquid, acid-based cleaner designed to remove rust, white rust, scale and medium to heavy surface soils from ferrous metals and aluminum prior to further surface treatment.</i></p> <p><i>OAK KLEEN 302-LO is recommended for:</i></p> <ul style="list-style-type: none">• <i>Removing rust from steel parts.</i>• <i>Removing metal scale before plating.</i>• <i>Etching metal to enhance paint adhesion.</i>• <i>Pickling metal.</i>• <i>Cleaning aluminum before brazing, welding or other heat treatments.</i>• <i>Cleaning stainless steel.</i>
FEATURES AND BENEFITS	<ul style="list-style-type: none">• <i>Low temperature formulation (cold - 150°F).</i>• <i>Versatile - one product to clean, derust, etch.</i>• <i>Safety - safer to handle than most mineral acids.</i>• <i>Good metal surface wetting.</i>• <i>Biodegradable formulation.</i>• <i>Conforms to – MIL-C-10578D, Type 3; TT-C-490 Method 6</i>• <i>Economical - Concentrated product can be diluted for low end use cost.</i>

<p>GETTING STARTED</p>	<p>FOR INDUSTRIAL USE ONLY</p> <p>OAK KLEEN 302-LO should be mixed with water manually or through an Oak liquid dispenser. OAK KLEEN 302-LO is recommended for immersion or manual (wiping) methods <u>only</u>. The proper concentration will depend on method of application, temperatures, exposure time, severity and composition of soil.</p> <p>Recommended starting dilutions (by volume): *<u>Immersion washers</u> - 10 - 25% (1:10 - 1:4), Cold - 150°F. *<u>Manual Methods</u> - 10 - 50% (1:10 - 1:1), Room Temp.</p> <p>*Metal surface must be rinsed and dried after cleaning with OAK KLEEN 302-LO. Titration methods available.</p> <p>(Note: OAK KLEEN 302-LO is strongly acidic. Refer to OSHA MSDS for additional information.)</p> <p>OAK KLEEN 302-LO is to be mixed with water for use (add concentrate to water). Add no other substances to the concentrate or mix unless approved by your OAK Representative. Not recommended for use with magnesium or alloyed magnesium.</p>
<p>TYPICAL PHYSICAL AND CHEMICAL PROPERTIES</p>	<p>Physical state: Liquid Appearance and odor: Clear, characteristic Color available: Light yellow Solubility in water: 100% Miscible Weight, lb/gal, 60°F (15.6°C): 11.7 Specific gravity, (H₂O = 1): 1.4 Boiling point, °F (°C): Not determined Flash point, COC, °F (°C): None Fire point, COC, °F (°C): None Extinguishing media: NA Unusual fire & explosion hazards: None Freezing point (or pour point), °F, (°C): <32 (<0) If frozen, product separates. Thaw completely at room temperature and stir thoroughly. pH, concentrate: 1.4 pH, 5.0% mix, typical operating conditions: 1.5</p>
<p>PACKAGING</p>	<p>Available in 5-gallon pails, 55-gallon drums and bulk containers.</p>
<p>For additional information concerning OAK KLEEN 302-LO, refer to its OSHA MSDS or contact OAK INTERNATIONAL at 1-269-651-9790.</p> <p>WARRANTY: Oak International, Inc. will grant credit on any product which proves defective in material or workmanship as determined by us subject to the following conditions: all material is subject to our inspection prior to issuing credit; any refund will be adjusted based on the volume of product used; no credit will be granted for used or unused product(s) over one year old as determined by the batch number. The terms in this warranty do not in any way extend to any product thereof covered by this agreement, which has a life, under normal usage, inherently shorter than the one year period indicated above. Except as set forth expressly in writing herein, there are no other warranties express or implied in respect of any product. No warranty of merchantability or fitness for purpose shall apply.</p> <p>LIMITATION OF LIABILITY: Under no circumstances shall we or any affiliate of ours have any liability whatsoever for loss of use or for any indirect or consequential damages.</p> <p>Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet. 12/7/07 REV</p>	