



OAK KLEEN 312

HIGHLY ALKALINE CLEANER CONCENTRATE

APPLICATIONS	<p>OAK KLEEN 312 is a liquid, heavy-duty alkaline spray/immersion cleaner for ferrous metals only.</p> <p>OAK KLEEN 312 is the cleaner of choice to remove those really difficult soils such as heavy cutting oils, greases, carbon and mill oils.</p> <p>OAK KLEEN 312 is recommended for:</p> <ul style="list-style-type: none">• Large multiple stage tunnel washers.• Small parts cleaning in tank washers.• Transmission & automotive rebuilding shops.• Any maintenance facility where heavy soils are encountered.
COMPETITIVE ADVANTAGES	<ul style="list-style-type: none">• Effective cleaning in either hard or soft water.• Heavy-duty, high detergency formulation.• Versatile - spray or tank applications.• Low temperature operation.• Maximum tank life.• Economical - low end use cost.

<p>GETTING STARTED</p>	<p>FOR INDUSTRIAL USE ONLY</p> <p>OAK KLEEN 312 can be diluted with either hard or soft water. The proper concentration will depend on method of application, temperature, exposure time, severity and composition of soil.</p> <p>Recommended starting dilutions as follows: <u>Spray washers</u> - 2-6% (1:50 - 1:16) by volume. 125-175°F. <u>Immersion washers</u> - 3-10% (1:33 - 1:10) by volume. 75-175°F.</p> <p>NOTE: Add Oak Kleen 312 <u>slowly</u> to water and mix. <u>Handle with care</u> as with any caustic cleaner. Refer to MSDS.</p> <p>Add no other substances to the concentrate or mix unless approved by your OAK Representative. Not recommended for use with magnesium, alloyed magnesium or aluminum.</p>
<p>TYPICAL PHYSICAL AND CHEMICAL PROPERTIES</p>	<p>Physical state: Liquid Appearance and odor: Clear, characteristic Color available: Straw Solubility in water: Complete at all proportions Weight, lb/gal, 60°F (15.6°C): 11.2 Specific gravity, (H₂O = 1): 1.34 Boiling point, °F (°C): 212 (100) Flash point, COC, °F (°C): N/A Extinguishing media: N/A Unusual fire & explosion hazards: None Freezing point, °F (°C): 0 (-18) Protect from freezing pH, concentrate: 14 pH, 5.0% mix, typical operating conditions: 13</p>
<p>PACKAGING</p>	<p>Available in 5-gallon pails, 55-gallon drums and bulk containers.</p>
<p>For additional information concerning OAK KLEEN 312, 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>	

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