



## **OAK DRAW<sup>®</sup> 503**

**EVAPORATIVE LUBRICANT**

<b>APPLICATIONS</b>	<p><b>OAK DRAW 503</b> is an "Evaporative" lubricant developed for stamping and drawing. <b>OAK DRAW 503</b> and Oak International, Inc. have found international acceptance meeting the product and process requirements of this vital marketplace.</p> <p><b>Oak Draw 503</b> is primarily used to stamp and draw cold roll, stainless, galvanized, copper, brass and aluminum sheet stock where post cleaning is prohibitive. The "Evaporative" nature of this unique lubricant supplies high boundary lubrication, without leaving excessive residues that interfere with subsequent assembling and/or manufacturing processes.</p>
<b>COMPETITIVE ADVANTAGES</b>	<ul style="list-style-type: none"><li>• <i>May not require post cleaning.</i></li><li>• <i>Good die and tool life.</i></li><li>• <i>Non-staining to most alloys.</i></li><li>• <i>Contains no water to promote rancidity, thereby ensuring optimum shelf-life in lubricant reservoirs.</i></li><li>• <i>Clean running product contains no oils.</i></li><li>• <i>Economical - Low end use cost.</i></li></ul>

<b>GETTING STARTED</b>	<p><b>FOR INDUSTRIAL USE ONLY</b>  <b>OAK DRAW 503</b> is used as received. May be applied by spray, dip or brush methods.</p> <p>Add no other substances to the concentrate or mix unless approved by your OAK Representative.</p>
<b>TYPICAL PHYSICAL AND CHEMICAL PROPERTIES</b>	<p><b>Physical state:</b> Clear Liquid  <b>Appearance and odor:</b> Colorless, characteristic  <b>Color available:</b> Colorless  <b>Solubility in water:</b> Insoluble  <b>Weight, lb/gal, 60°F (15.6°C):</b> 6.5  <b>Specific gravity, (H<sub>2</sub>O = 1):</b> 0.8  <b>Viscosity, SUS, 100°F:</b> 33  <b>Boiling point, °F:</b> &gt;340  <b>Flash point, TCC, °F (°C):</b> 124 (51.1)  <b>Extinguishing media:</b> CO<sub>2</sub>, foam, dry chemical  <b>Unusual fire &amp; explosion hazards:</b> See flash point.  <b>pH, concentrate:</b> Not Applicable  <b>Total chlorine, wt%, calculated:</b> 0.0  <b>Total sulfur, wt%, calculated:</b> 0.0  <b>Silicones:</b> None</p>
<b>PACKAGING</b>	<p><b>Available in 5-gallon pails, 55-gallon drums and bulk containers.</b></p>
<p>For additional information concerning <b>OAK DRAW 503</b>, refer to its OSHA MSDS or contact OAK INTERNATIONAL at 1-269-651-9790.</p> <p><b>WARRANTY:</b> 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><b>LIMITATION OF LIABILITY:</b> 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><b>Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet. 1/10/08draw REV</b></p>	

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