



OAK INTERNATIONAL
Global Metalforming Fluids

OAK DRAW[®] 503 LA

EVAPORATIVE LUBRICANT

APPLICATIONS	<p>Oak Draw 503 LA lubricant is an "Evaporative" Lubricant developed for fin stamping and drawing in the air conditioning and heat transfer industries.</p> <p>Oak Draw 503 LA lubricant and Oak International have found international acceptance in meeting the product and process requirements of this vital marketplace.</p> <p>Oak Draw 503 LA lubricant has been specifically designed to have low levels of formate and acetate generation when hydrolyzed.</p> <p>Oak Draw 503 LA lubricant is primarily used to stamp and draw aluminum sheet stock where post cleaning is prohibitive. The "Evaporative" nature of this unique lubricant supplies high boundary lubrication, while leaving minimal residue.</p>
COMPETITIVE ADVANTAGES	<ul style="list-style-type: none">▪ "Evaporates" at room temperature after use, may require no post cleaning.▪ Compatibility with your specific system refrigerants should be tested.▪ Pre-tested on Fin Lines around the world.▪ Good die and tool life.▪ Non-staining to copper and aluminum alloys.▪ Contains no water to promote rancidity, thereby, insuring optimum shelf life in lubricant reservoirs.▪ Clean running product contains no oils.▪ Economical - Low end use cost.

GETTING STARTED	<p>FOR INDUSTRIAL USE ONLY OAK DRAW 503 LA is used as received and may be applied by spray, drip or brush methods.</p> <p>Add no other substances to the product unless approved by your OAK Representative.</p>
TYPICAL PHYSICAL AND CHEMICAL PROPERTIES	<p>Physical state: Liquid Appearance and odor: Clear, characteristic Color available: Colorless Solubility in water: Insoluble Weight, lb/gal, 60°F (15.6°C): 6.5 Specific gravity, (H₂O = 1): 0.77 Viscosity, SUS, 100°F: 33 Boiling point, °F: > 340 Flash point, TagCC, °F (°C): 124 (51.1) Extinguishing media: CO₂, foam, dry chemical Unusual fire & explosion hazards: See Flash Point pH, concentrate: Not applicable Total chlorine, wt%, calculated: 0.0 Total sulfur, wt%, calculated: 0.0 Silicones: None</p>
PACKAGING	<p>Available in 5-gallon pails, 55-gallon drums and bulk containers.</p>
<p>For additional information concerning OAK 503 LA, 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. 7/3/07 REV</p>	

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