



# Innovation in Metalworking Fluids



## *Kut Rite Cutting and Grinding* **Straight Oils**

### Description

The Kut Rite family of cutting and grinding fluids has been specially designed to provide the optimum performance across a variety of different operational levels and viscosities. Straight oils are meant to be used in tougher operations where lubrication and extreme pressure properties are necessary. The Kut Rite family consists of five products ranging from a low viscosity/light duty oil up to a medium viscosity heavy duty oil.

Product	Description
<b>Kut Rite 1100</b>	Low viscosity light duty oil that is designed to provide excellent wetting properties. Can be used in higher speed operations and swiss machines
<b>Kut Rite 2200</b>	Designed to provide good performance in light to moderate duty cutting applications, it can also be used as a dual or tri-purpose oil. The product is ideal for screw machines or any operation where this is a high probability of leakage.
<b>Kut Rite 3300</b>	Formulated to offer medium to heavy duty performance at a higher viscosity. The product has been fortified with lubricity and extreme pressure additives that are ideal for gear hobbing, gear shaping, threading, and tapping applications.
<b>Kut Rite 4200 and 4210</b>	Highly fortified heavy duty products designed to offer protection during even the most difficult machining operations including, but not limited to; pip threading, tapping, reaming, or internal broaching.

### Typical Properties

<b>Kut Rite</b>	<b>1100</b>	<b>2200</b>	<b>3300</b>	<b>4210</b>	<b>4200</b>
<i>Machinability</i>	Light	Light-Moderate	Moderate-Heavy	Heavy	Heavy
<i>Appearance</i>	Light straw	Amber	Amber	Straw	Light Amber
<i>Viscosity @ 40 °C, cSt</i>	10	32	40	22	32
<i>Viscosity @ 100 °F, SUS</i>	60	150	190	106	150
<i>Specific Gravity at 15.6 °C</i>	0.91	0.93	0.95	0.97	0.97
<i>Density, lbs / gallon</i>	7.59	7.76	7.92	8.09	8.09
<i>Sulfur</i>	No	No	No	Yes	Yes
<i>Chlorine</i>	Yes	Yes	Yes	Yes	Yes