



KLENEDRAW W-4801

KLENEDRAW W-4801 is an oil free chemical solution formulated as a lubricant for metal forming operations on ferrous metals and stainless steels. **KLENEDRAW W-4801** is designed to perform on some of the most difficult stamping and drawing operations. It has excellent wetting characteristics and interacts with metal surfaces to produce a high strength boundary film and chemical extreme pressure lubrication.

USAGE

KLENEDRAW W-4801 can be used as a straight concentrate or at dilutions up to 15 to 1 with tap water. It can be applied using JET-SET[®] hydraulic spray systems, drip, roller coater or flood methods.

PHYSICAL CHARACTERISTICS

Density	1.07 g/ml 8.9 lbs/gal
Appearance	Amber Liquid
Odor	Bland
pH of Concentrate	Typically 9
Refractive Index (freshly diluted)	17.4 @ 3:1 14.4 @ 4:1 10.1 @ 6:1 8.0 @ 8:1 7.2 @ 9:1 6.5 @ 10:1 5.2 @ 13:1 4.5 @ 15:1

BENEFITS

- **Is a Very Operator-Friendly Product**
- **Contains No Hazardous Ingredients**
- **Affords Good In-Process Rust Protection**
- **Cleans Easily In Low Temperature Water Based Solutions**
- **Replaces Straight Compounded Oils**
- **Performs Heavy-Duty Operations at Extended Dilutions**
- **Mixes Easily With Water**
- **Produces an Extreme Pressure Lubricating Film**

TECHNICAL SUPPORT

TOWER wants to assist you in evaluation and selection of suitable products. We urge you to take advantage of this service. This information sheet and **TOWER's** assistance, however, are not a substitute for your own testing and evaluation. 05189