



KLENEDRAW 3801

KLENEDRAW 3801 is an oil free chemical solution designed as a lubricant for metal forming operations on ferrous metals and stainless steels. **KLENEDRAW 3801** was formulated to perform on some of the most difficult stamping and drawing operations. It penetrates and interacts with metal surfaces to produce a high strength boundary lubrication film and also offers chemical extreme pressure characteristics.

USAGE

KLENEDRAW 3801 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	1.08 g/ml 9.0 lbs/gal
Appearance	Golden Liquid
Odor	Mild
pH at 10% (9:1) dilution	Typically 8.4
Refractive Index (RI) (freshly diluted)	14.7 @ 3:1 9.9 @ 5:1 7.4 @ 7:1 5.9 @ 10:1 4.6 @ 12:1 3.7 @ 15:1
RI Factor	1.69 x RI = Vol %

BENEFITS

- **Is a Very Operator-Friendly Product**
- **Contains No Hazardous Ingredients**
- **Does Not Contain Fats, Oils or Greases**
- **Does Not Contain Chlorine or Sulfur**
- **Affords Good In-Process Rust Protection**
- **Provides Good Weld Through Without Cleaning**
- **Cleans Easily In Low Temperature Water Based Solutions**
- **Replaces Straight Compounded Oils**
- **Performs Heavy-Duty Operations at Extended Dilutions**
- **Mixes Easily With Water**
- **Is Environmentally Friendly**

TECHNICAL SUPPORT

This is a Proprietary product. 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.