



KLENEDRAW W-4177

KLENEDRAW W-4177 is a product designed for use as a lubricant for metal forming operations on ferrous metals and aluminum. It is effective for multi-stage forming, drawing, deep drawing, roll forming and tube bending. It produces a high strength film on metal surfaces and also offers chemical extreme pressure characteristics.

USAGE

KLENEDRAW W-4177 should be used as a straight concentrate, or at dilutions up to 20:1 with tap water. It can be used in recirculating systems or it can be applied in minimal amounts by using airless spray, drip, roller coater or similar methods. For optimal results, **Klenedraw W-4177** should be used within a 3 month period.

PHYSICAL CHARACTERISTICS

Density	1.03 g/ml	8.59 lbs/gal	
Appearance	Golden Orange Liquid		
Odor	Bland		
pH (concentrate)	9.2 – 9.5		
Refractive Index	24.5 @ 1:1	15.2 @ 2:1	12.3 @ 3:1
(freshly diluted)	10.0 @ 4:1	9.5 @ 5:1	4.8 @ 10:1

BENEFITS

- **Contains No Hazardous Ingredients**
- **Contains No Oils or Greases**
- **Does Not Contain Chlorine or Phosphorous**
- **Has Excellent Rust Protection for Inside Storage**
- **Cleans Easily In Low Temperature Water Base Solutions**
- **Can Be Welded Through Without Cleaning**
- **Can Replace Vanishing Oil in Many Instances**
- **Mixes Easily With Water**
- **Is Environmentally Friendly**

TOWER OIL & TECHNOLOGY Co. 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 OIL & TECHNOLOGY Co.**'s assistance, however, are not a substitute for your own testing and evaluation.

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