



PRODUCT DATA SHEET

Advancing the science of metalworking

DuraKut Ti

SEMI-SYNTHETIC METALWORKING FLUID

Product Description:

DuraKut Ti is a high performance metalworking fluid specifically designed for machining titanium. DuraKut Ti combines the lubricity characteristics of soluble oil with the cooling and flushing characteristics of a synthetic. DuraKut Ti's emulsifier package is engineered to provide exceptional emulsion stability, with low foam, under the high flushing rates required for rapid metal removal and cooling, while machining titanium. Via a tri-phase corrosion inhibitor package, DuraKut Ti provides excellent rust protection without the use of alkali caustics or harsh additives.

Benefits:

- Extended Tool Life
- Exception Heat Transfer Characteristics
- Excellent Lubricity without Chlorine or Sulfur
- Low Foaming Characteristics
- Prevents Welding of Work Metal on Tool
- Dependable Rust Protection
- Non-Hazardous / Operator Friendly
- Hard Water Stable
- No Phenols or Nitrates

Application:

In initial trials, dilute 1 part DuraKut Ti with 10 to 20 parts water for machining.

Recommended Concentrations:

Operation	Dilution	Concentration
Grinding	8 to 20 to 1	5-12 %
Finish Turning	8 to 20 to 1	5-12 %
Rough Turning	8 to 20 to 1	5-12 %
Drilling	8 to 20 to 1	5-12 %
Milling	8 to 20 to 1	5-12 %
Sawing	10 to 20 to 1	5-12 %

Typical Properties:

Appearance	Amber viscous liquid
Odor	Mild
Specific Gravity	0.85 g/mL
pH (1% solution)	9.0 (typical)
Flash Point	N/A
Effects of Freeze-Thaw cycle	Stable
Refractive Index Multiplier	1.8

Toxicity & Handling Precautions:

DuraKut Ti is safe to handle in concentrated or diluted form. Exercise care consistent with good industrial practices. Adhere to prevailing OSHA safety regulations, guidelines and/or procedures for this class of product. Refer to DuraKut Ti Material Safety Data Sheet for additional information. MSDS can be requested by email to CustomerService@Falconindustrialinc.com.

FOR INDUSTRIAL USE ONLY

Availability:

- 5 gallon pails
- 55 gallon drums
- Tote tanks
- Bulk shipments