



CHARACTERISTICS

- **USABLE FOR:**
 - STAINLESS STEEL
 - CAST-IRON
 - HIGH ALLOY STEEL
- **COMPATIBLE WITH MICRO PUMP SYSTEMS (VIP4)**
- **COMPATIBLE WITH VENTURI SYSTEMS (MKD)**
- **EXTENDED TOOL LIFE**
- **REDUCED CYCLE TIME**

**OPTIMAL
SURFACE
FINISHING**

APPLICATION

- MACHINING
- MILLING
- BORING
- TAPPING
- MOULDING
- BOSSING
- SHEARING
- TURNING
- INTEGRATED TURN-MILL

MK-STAINLESS MQL OIL IS FOR HIGH PERFORMANCE NEAR DRY MACHINING APPLICATION IN MQL LUBRICATION DEVICES.

DESCRIPTION, OPERATIONS & MATERIALS

High-performance metalworking oil based on an advanced lubricating technology.

Polar additives combined with extreme-pressure lubrication based on effective Chlorine technology gives optimal wetting and lubricating properties ensuring high surface finish quality and improved tool life.

The product must be used pure.
Do not mix with other substances

MAIN APPLICATION:

Heavy-duty metalworking operations; Ferrous materials.



BENEFITS

- ✓ Low oil mist
- ✓ Good foam properties
- ✓ High surface finish and dimensional accuracy of tool
- ✓ Avoids build-up on machines
- ✓ Ensures machine tool life during the process
- ✓ Efficient chip removal

ECO FRIENDLY MACHINING



ORDER INFORMATION

INFORMATION ON SPECIFIC WEIGHT AND DIMENSIONS	
PART NUMBER	DESCRIPTION
3225465	MK Stainless 25 Kg Pak

TECHNICAL INFORMATION

AVERAGE CHEMICAL AND PHYSICAL PROPERTIES*		
Density at 15° C		0,990 (g/cm ³)
Viscosity at 40° C	ASTM D 445-88	8-12 (mm ² /s)
Flashpoint	COC	110
Storage temperature		4-35°C
Boiling point/range (°C):		>150

*This data does not constitute as a specification



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SYSTEMS MQL INFORMATION

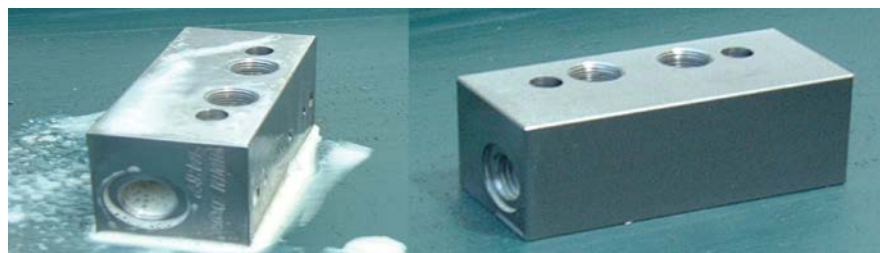
MINIMAL QUANTITY LUBRICATION (MQL) & NEAR DRY MACHINING

The aim of near dry machining is to replace traditional coolant and pure oil flood systems in a machining environment with an accurately controlled compressed air stream that carries minimal quantities of oil lubrication in an "aerosol" format to the cutting surface. This ensures lubrication of the cutting surface and allows for high performance machining.



Lubricating Aerosol is transported to the cutting surface in two ways:

1. With External Lubrication: oil is transported via a nozzle to the cutting surface. Dropsa has a complete product line from simple, easy to install products such as the Grip and Vip4Tools series for External lubrication (please ask for documentation).
2. With Internal or "through-the-tool" lubrication: oil is transported through internal lubrication holes in the cutting tools. The MKD-Dual product line leads the way with patented technology that generates specifically profiled micron-sized oil aerosol particles that can be injected through existing spindles and tool-holders to the leading edge of the cutting tool.



THE BENEFIT OF DROPSA NEAR-DRY MACHINING TECHNOLOGY

- Reduce work cycle times, generally by 25% to 80%.
- Increase tool life thus increasing time between tool change and gain productivity.
- Better surface finish and tolerances can be achieved.
- Eliminate coolant – make your plant more environmentally friendly.
- Parts finish machining with a fine rust inhibiting oil coating – not coolant contamination.
- Water and oil consumption drastically reduced.
- Our technology works on diverse materials and machining operations.
- Eliminate capital cost of high pressure thru-tool coolant system on new systems.
- Side-by-side Implementation parallel to existing coolant system gives you peace of mind and maximum flexibility.
- Side-by-side Implementation parallel to existing coolant system gives you peace of mind and maximum flexibility.
- MKD DUAL Uses Patented Auto-adaptive technology eliminating complex and continual adjustment between tool change.
- No complicated electronic control systems needed thanks to the patented Auto-adaptive system.



ADVICE ON TOOLING AND APPLICATIONS AVAILABLE