Eco friendly machining

Characteristics

- Usable for
  - Stainless steel
  - Steel strongly legacy
- Compatible with micro pump systems (VIP4)
- Compatible with Venturi systems (MKD)
- Greater duration to the tools job
- Decrease cycle time

Ideal for

Good tough ability

Applications

- Machining
- Milling
- Boring
- Tapping
- Moulding
- Bossing
- Shearing

MK HIGH PERFORMANCE

MQL oil used in minimal systems for all the alloys of good tough ability

This is a neat cutting oil. It is designed for machining, milling, boring, tapping, moulding, bossing, shearing, and other operations when there is a need for a product with a high EP power.

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It does not contain mineral oils. It is made up of synthetic esters mixed with active/inactive sulphur-containing compounds, greasing agents, sulphur-and-phosphorus-containing additives, antioxidants and metal passivators. Working synergetically, these ingredients ensure:

- the absence of fumes or vapors during the machining operations;
- a high flashpoint and absolute safety;
- an excellent fluidity, even at low temperature and a superb wetting power,
- thanks to which the oil spreads out over the metallic surface quickly and uniformly;
- outstanding greasing, EP and detacking power, for high quality finish;
- good resistance to oxidation and rust;
- good antiwear properties;
- an excellent antiwelding power.

This product does not contain chlorine or chlorinated compounds

Order Information

INFORMATIONS ON SPECIFIC WEIGHT AND DIMENSIONS	
PART NUMBER	DESCRIPTION
3226666	MK HIGH PERFORMANCE 29 Liter Pack

AVERAGE CHEMICAL AND PHYSICAL PROPERTIES*		
Density a 20° C	ASTM D 1298	0,930 Kg/lt
Viscosity a 40° C	ASTM D 445	101,9 cSt
Viscosity a 100° C	ASTM D 445	17,9 cSt
Viscosity Index	ASTM D 2270	194
Flashpoint	ASTM D 92	> 280 °C
Pourpoint	ASTM D 97	<-10°C

*These data do not consititute specification

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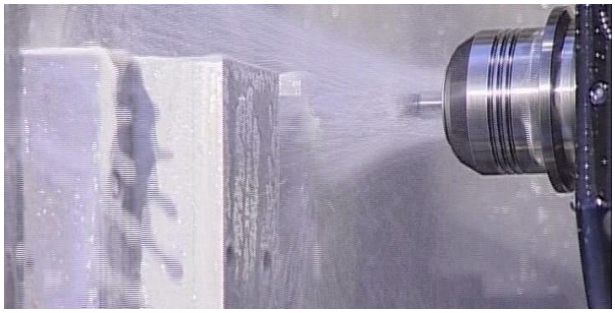
Systems MQL Informations

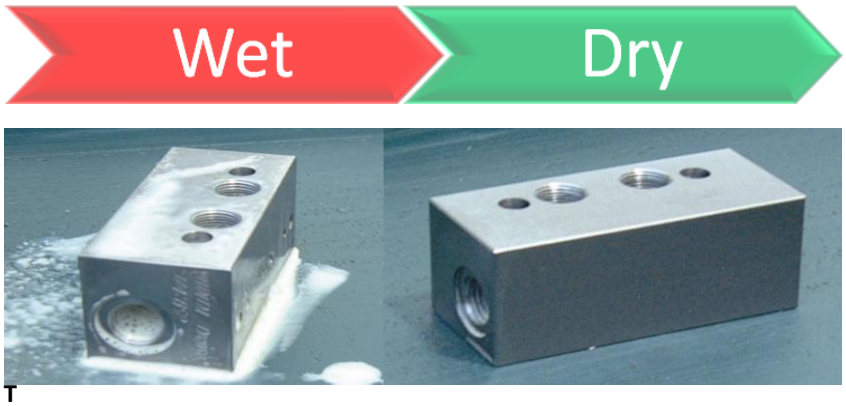
MINIMAL QUANTITY LUBRICATION (MQL) & NEAR DRY MACHINING

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:

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).
With ***Internal*** or "***through-the-tool***" lubrication: oil is transported through internal lubrication holes in the cutting tools. The **MKD-Dual** product 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.



Coolant is eliminated

Cycle times are reduced

Tool life is increased

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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.
- 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