



SPIRIT

5000



Multipurpose
microemulsion
for cutting
operations



SPIRIT 5000

is a new water based fluid, optimized for general machining and grinding. It has been specially designed for cast iron, steels and aluminum.

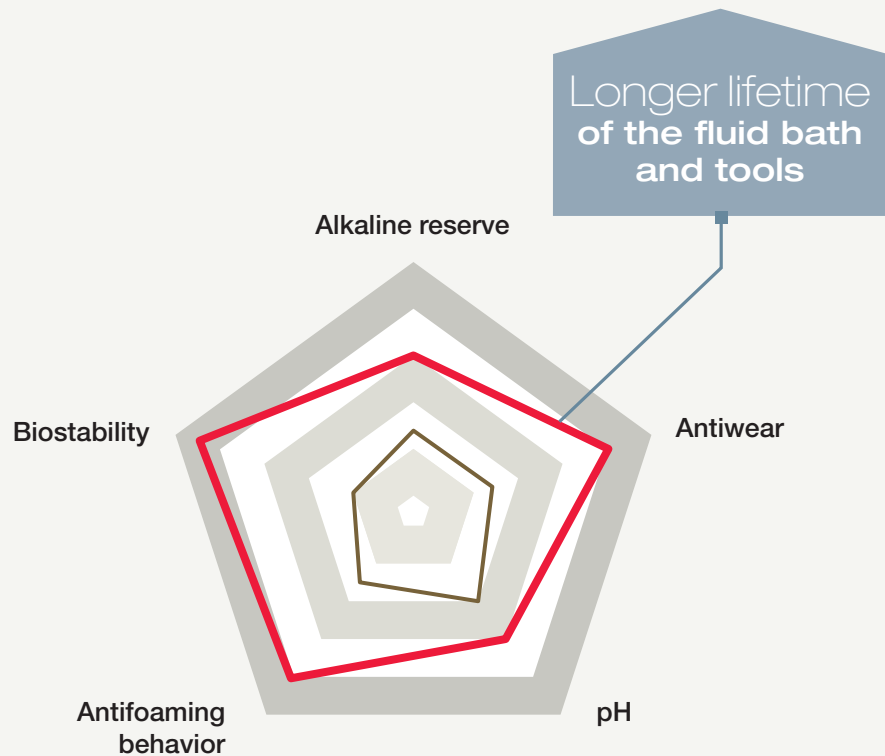
Its technical performances enable more efficient operations for a better productivity.



CUSTOMER BENEFITS

- > Wide range of operations and metals
- > Increased drain intervals
- > Extended tool lifetime

OUTSTANDING PERFORMANCES

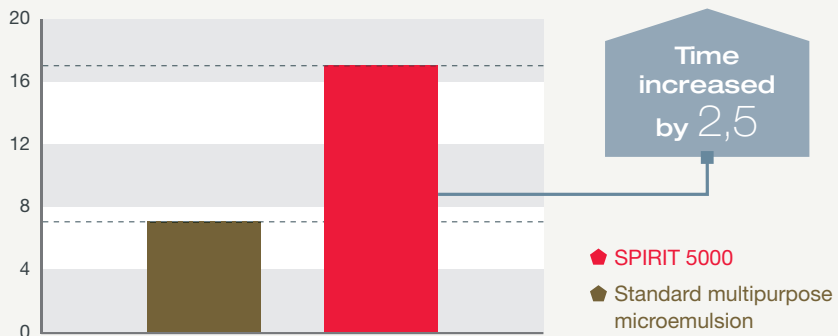


◆ SPIRIT 5000
◆ Standard multipurpose microemulsion



LONGER BATH LIFETIME

Time before development of bacteria (week)



Test DBL 6570: Concentration 5 v% - 20° dH - Room temperature

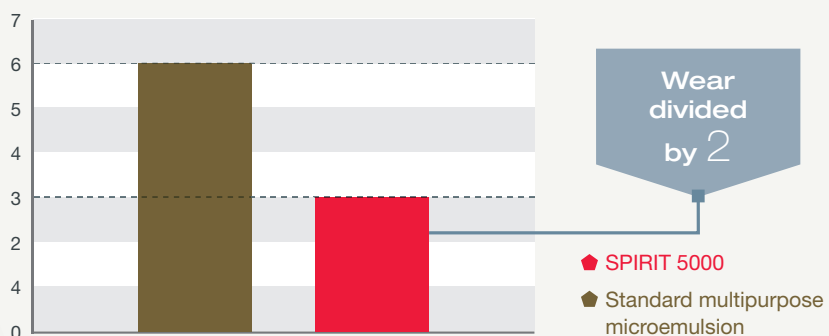
> **SPIRIT 5000** offers a very high resistance to microorganism development, thanks to high pH technology and outstanding alkaline reserve. These properties allow to increase drain intervals of the bath.

STANDARDS AND SPECIFICATIONS

- ISO 6743-7: ISO-L-MAF

EXTENDED TOOL LIFETIME

Surface wear (mm²)

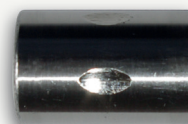


Reichert test: 100 N during 15 min - Concentration 5 v%

> **SPIRIT 5000** has reinforced antiwear properties and lubricity. This allows to extend tool lifetime and improve part quality.



Surface wear with standard multipurpose microemulsion



Surface wear with SPIRIT 5000

WIDE RANGE OF OPERATIONS



MILLING



TURNING



SAWING



REAMING



TAPPING



THREADING



GRINDING

SPIRIT 5000 is an innovative real multipurpose microemulsion which allows a rationalization of products needed in your plant. Thanks to outstanding performances (antiwear, anticorrosion, biostability, low foaming behavior), **SPIRIT 5000** allows a significant reduction of operating costs. Its specific formulation, free of hazardous molecules, preserves the health of operators.

SPIRIT 5000 is the best choice for all of your cutting operations.

www.industrial.lubricants.total.com