



## METALWORKING

FOLIA B 9000 is a revolution in the field of metalworking designed for aluminum and steel alloys. It is a bio-sourced solution free of oils and emulsifiers, with high cooling and lubricating properties. This offers users a unique product for multiple operations.



## APPLICATIONS

Versatile fluid which can be applied in a broad range of applications

✓ **Metals:**

Steels, Cast iron and Aluminum

✓ **Duty range:**

Moderate to Severe

✓ **Soft or deionised water**

## HEALTH | SAFETY | PERFORMANCE



### HEALTH

- ✓ Less hazardous components
- ✓ Boron/Formaldehyde free technology



### SAFETY

- ✓ No odor / smell
- ✓ No dermatitis
- ✓ No fumes
- ✓ No oily machines / workspace



### PERFORMANCE

- ✓ Longer Tool Life
- ✓ Longer Fluid timespan
- ✓ Less Consumption
- ✓ Increased productivity

## CUSTOMER BENEFITS

- ✓ Longer sump lifetime
- ✓ Better tool life
- ✓ Productivity Increase
- ✓ No more foaming issues
- ✓ Cleaner Workshops
- ✓ Less fluid drag out (drier chips)
- ✓ Reduced production costs (TCO)

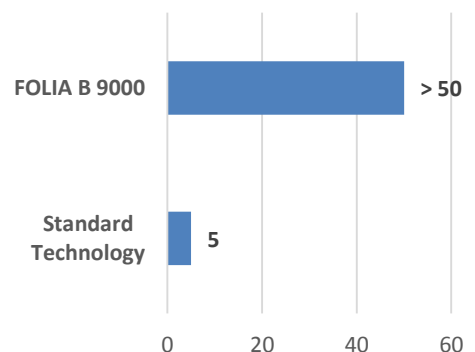
## PROVEN TOOL PROTECTION DUE TO OUTSTANDING ANTIWEAR PROPERTIES

Tests made at SENAI University

Machine ROMI D 800  
HSS tool  
Cutting Speed: 5000 rpm  
Operation M6 \* 5

Extreme conditions with 5250 F  
Aluminum alloy without heat treatment  
> Elongation of 17%

Tapping through cutting



# TECHNICAL DATA - FOLIA B 9000

CHARACTERISTICS	METHODS	UNITS	VALUES
Aspect	Visual	--	Translucent
Color	Visual	--	Greenish
Density at 60°F	ISO 12185	Lbs./gal.	8,662
Flash point	ISO 2592	°F	Does not Flash
pH	DIN 51369	--	9,5

## SPECIFICATIONS AND APPROVALS



Reach



Dermatologically tested



RoHS compliant

## DILUTION RECOMMENDATIONS

APPLICATION	MINIMUM CONCENTRATION RATE	MAXIMUM CONCENTRATION RATE
Grinding	5%	7%
General Machining	5%	9%
Heavy Machining	7%	15%
Forming	5%	Undiluted

Easy Cutting

5%

DILUTION

Undiluted

Forming



Concentrate – Visual & Color  
Color may vary from production

## REFRACTOMETER



Clear visual reading

## COMPATIBILITY

- ✓ Does not mix with mineral oils
- ✓ Compatible with conventional rubbers, paints and other machine part

## STORAGE

- ✓ Inside / sheltered
- ✓ Temperature from 41°F to 104°F
- ✓ No exposure to direct sunlight

## SHELF LIFE

- ✓ Optimal performance is obtained if product is used within 12 months
- ✓ Normal wastewater treatment methods can be applied

TOTAL LUBRIFIANTS  
INDUSTRY & SPECIALITIES

13-05-2019  
FOLIA B 9000

This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in use in the E.C. is obtainable via your commercial adviser quick-fds.com.

