

METAL WORKING

PRESENTATION

POLYBIO 650 AL is a mineral based water-soluble coolants enriched in EP additives to offer the best lubricating performances on aluminium alloys machining. Thanks to its quick degassing properties and its high aluminium compatibility, the **POLYBIO 650 AL** is especially suited for aerospace parts machining

APPLICATIONS

- ◆ Heavy duty machining and forming operations
- ◆ Multi metal friendly - Aerospace aluminium alloys, standard aluminium, stainless steel, titanium and titanium alloys

PRODUCT BENEFITS

- High lubricating performances
- Compatible with high pressure spraying
- Boron & Amines free
- High Aluminium compatibility

ADVANTAGES

- ◆ **Performance:** **POLYBIO 650 AL** is formulated with a high oil content and a custom EP additive package. Its offers high lubricating performance to increase cutting performances and prevent tool wear.
- ◆ **Metal compatibility :** **POLYBIO 650 AL** integrates a reinforces aluminium corrosion inhibitor package to prevent sensitive aluminium alloys (Aerospace) and ferrous metal staining.
- ◆ **Operator friendly:** **POLYBIO 650 AL** is formulated without boron nor amines. It contributes into preventing some of the skin reactions met by operator.
- ◆ **Foaming:** **POLYBIO 650 AL** is compatible with high pressure spraying thanks to its quick degassing and fast foam breakdowns properties. It provides consistent lubricating performances, maintain a clean machine environment and reduces maintenance.
- ◆ **Cleaning:** Easily washed with alkaline cleaner or solvent.

CHARACTERISTICS

	Units	POLYBIO 650 AL
Pure state :		
Aspect	/	Blond
Density at 20°C	g/cm ³	0.950
Flash point (open)	°C	N / A
Storage temperature	°C	From 5° to 40°C, keep off freezing
Recommended maximum storage time	/	1 year, under original packaging
Recommended concentration of use	/	[4%-12%]
Diluted to 1 :20 (5 %) :		
pH	/	≈ [8,1-9,1]
Refractometer coefficient	/	1.1
Behavior :		
Steel Corrosion	DIN 51360-2	Ok at 5%
Aluminum series 200 Corrosion	CNOMO D635223	0-0
Aluminum 7000 Corrosion	CNOMO D635223	0-0

Above details are issued from a production average ; they are not specifications

HEALTH AND SAFETY

☞ See MSDS

POLYBIO 650 AL