

A soluble boron and amine-free fluid (emulsion), for tough machining operations.

PERFORMANCE DATA

A soluble bacteriostatic emulsion fluid recommended for tough machining operations on a wide range of materials including steels, titanium and aluminium alloys.

USINOV 3500 BF has low alkalinity, which also makes it suitable for machining yellow metals.

ADVANTAGES

- Operator-friendly: a low-alkalinity product
- Low foaming: applied at high pressures and flowrates, in soft to medium-hard water
- A fluid with very high in-service stability: improved bath service life

Complies with the French ruling of 13 July 2006 on work which results in exposure to formaldehyde.

Free from formaldehyde

Free from BIT

Free from amines

Free from chlorine.

Free from zinc and heavy metals

Free from nitrite and phenol

Free from silicone

Boron-free

USES

Standard concentration for use: 6-12% depending on the type of operation

Recommended water hardness: 15-30° TH

FLUID MAINTENANCE

A badly prepared bath can impair the stability of the product and generally shortens the service life of the cutting fluid. All equipment which comes into contact with the fluid must be cleaned and disinfected before a bath change.

A complete range of cleaning products, disinfectants and maintenance additives is available from your IGOL contact.

Fiche technique



Characteristics	Standards	Units	Values
Concentrate			
Appearance/colour	-	-	Clear, amber
Density at 15°C	NFT 60-101	kg/m ³	960
Kinematic viscosity at 20°C	NFT 60-100	mm ² /s	135
Type of base oil	-	-	Mineral + ester
Refractive index	-	%°Brix	1.1
Max. permitted hardness in use	-	°F	70
Steel corrosion limit	DIN 51360	%	4
Additives			
Chlorine	-	-	no
Sulphur-containing EP	-	-	no
Active sulphur	-	-	no
Phosphorus	-	-	no
5% dilution in distilled water			
Appearance	-	-	milky
pH	-	-	8.6 to 9

Fiche technique

The characteristics are given purely for information and are consistent with our current production standards. IGOL reserves the right to modify them, in order to pass on technical developments to its customers. Before using this product, you should consult the instructions for use and the environmental impacts shown on the technical and safety data sheets. The information given above is based on the current state of our knowledge of the product in question. The product user should take all relevant precautions relating to its use. Under no circumstances may IGOL be held liable for damages resulting from misuse.

Document ref.: XII-IGOL019-1909
Published: 06/11/19

