

A high-performance, boron-free, soluble fluid developed for difficult machining operations on cast iron, steel and aluminium.

PERFORMANCE

USISPACE 6100 BF is a soluble, boron-free and formaldehyde-free mineral base oil for machining cast iron, steel, aluminium, stainless steel, titanium and nickel.

The careful selection of the product's petroleum bases, lubricity agents and wettability ensures that machining operations produce excellent surface finishes, particularly when reaming or boring using tools fitted with inserts.

Thanks to the quality of its ingredients and the absence of boron, USISPACE 6100 BF: has remarkable lubrication and wettability properties; can be very effectively filtered; does not form adhesive and insoluble residues; and keeps components and equipment extremely clean. Its biostability both in individual machines and in centralised systems is very good, even in challenging environments, and it requires very little maintenance. Its formulation has been developed to allow it to partially emulsify foreign oils. It is ideally used with very soft to medium hard water and although foam may form in very soft water, this dissipates immediately and does not disrupt the process.

Meets AIRBUS specifications: CDCAS42302

Meets SAFRAN specifications: D-110716-05770 lot 1 and D-270716-06251 lot 1

Complies with RCC-M (French design and construction rules for mechanical components of power stations)

ADVANTAGES

- boron-free
- formaldehyde-free
- very high detergent power
- good protection against corrosion
- biostable

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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 triazine.
Free from chlorine.
Free from zinc and heavy metals.
Free from nitrite.
Free from silicone.

USES

Standard concentration for use: 7-12% depending on the type of operation.
Recommended water hardness: 80-300 ppm (8-30° fH).

FLUID MAINTENANCE

A poorly prepared bath can cause product instability and generally shortens the service life of the cutting fluid. Cleaning and disinfection of installations in contact with the fluid must precede any bath change.
A complete range of cleaning products, disinfectants and maintenance additives is available from your IGOL contact.

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Characteristics	Standards	Units	Values
Concentrate			
Appearance/colour	-	-	Clear, pale amber
Density at 15°C	NFT 60-101	kg/m ³	0,995
Kinematic viscosity at 20°C	NFT 60-100	mm ² /s	342
Type of base oil	-	-	Mineral + Ester
Refractive index	-	%°Brix	1.3
Max. permitted hardness in use	-	°F	100
Steel corrosion limit	DIN 51360	%	3
Additives			
Chlorine	-	-	N/A
Sulphur-containing EP	-	-	N/A
Active sulphur	-	-	N/A
Phosphorus	-	-	N/A
5% dilution in distilled water			
Appearance	-	-	opalescent
pH	-	-	9.4

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.

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