

TECHNICAL DATA SHEET

Soluble lubri-coolant fluids ***Performa***

with a basis coming from renewable sources

Main features

The Performa vegetal lubri-coolants are prepared to improve the impact on the environment, to protect the operators' health and to guarantee high performance during cutting works. They are multipurpose preparations, with basic oils coming from renewable sources and without the risk labelling.

Performa vegetal lubri-coolants have the following characteristics:

- biodegradability
- molecule polarity
- diethanolamine free
- highly resistant to bacterial attacks, although they are triazine bacteria free
- E.P. chlorinated additives free
- high skin tolerability

Performa vegetal lubri-coolants diluted in water at the concentrations of use allow:

- recycling in single or centralised machine tool tanks
- constant stability in hard water
- foam not to form with medium hard water
- an increase in machine tool performance
- a reduction of oil consumption
- a significant reduction in the chemical and/or biological risk
- to have higher protection against oxidation on both finished parts and machine tools
- a cost reduction in oil disposal

Field of application

Performa vegetal lubri-coolants are specific to:

- replace oils prepared with minerals
- carry out grinding operations on steel and cast iron parts
- carry out removal operations on all metals
- carry out significant removal operations on alloyed steels

Performa vegetal stabilised biodegradable basis of lubri-coolants have a molecular structure called "polar", which is arranged regularly on the surface of the part being worked, differently from the behaviour of the traditional mineral oils.

This crucial characteristic, very similar to the surface of the metal being worked, allows to reach better global results in reducing consumption, in the wear of tools and working time, with the same mechanical works.

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Main characteristics of multi-purpose preparations

Product	Appearance	Vegetal oil content	EP additives content	Lubricant additives content	Initial water hardness	Refractometric correction	Recyclability
Performa V10	Semi-transparent	High	Absent	Absent	15-40	1.5	High

Application guide

	Cast iron		Steel C		Stainless Steel		Steel Pb		Aluminium Si		Aluminium MgCu		Copper alloys	
	T	R	T	R	T	R	T	R	T	R	T	R	T	R
Plant-based														
Performa V10	5 ■■■		5 ■■■	2,5 ■	6 ■■■	4 ■■■	5 ■■■	2,5 ■■■	6 ■■■	3 ■				

Key

T	Turning	■■■	Highly suitable
R	Grinding	■■	Suitable
		■	Not very suitable

The number expresses the refractometric percentage concentration of use