

TECHNICAL DATA SHEET

Soluble lubri-coolant fluids Performa

free from boron- and bactericide donors of formaldehyde

Main Features:

Extremely innovative new generation lubri-coolants that have the following characteristics in common with all preparations of the range

- **are free from boron** (intended as boric acid and its salts) and **bactericides** donors of formaldehyde
- **are free from surfactants** that require labelling of the pure preparation with the phrases H314 and H318 with the relevant pictogram of corrosivity GHS05
- **meet both technological requirements**, with preparations aimed at any type of production need, **and the ecological and environmental requirements** as they have been designed to meet all requirements of operators' and environmental protection

Lubri-coolants diluted in water at the concentrations of use allow the following advantages:

- advanced hygiene and sanitation profile
- excellent mechanical and lubri-cooling performance
- excellent stability of emulsions, even in the presence of hard waters
- excellent resistance to microbiological degradation
- low formation of foam even with waters of medium hardness
- very low chemical risk

Applications:

Preparations of this lubri-coolant can be used in a wide series of works, from the most simple removals during milling and grinding, to the most severe ones, such as heavy removals on steels, alloyed steels and exotic alloys.

Main characteristics of multi-purpose preparations

Product	Appearance	Nature and percentage of the base	EP additive	DIN 51360/2 Corrosion test starting from (refractometric %)	Recyclability
Performa 20 E/BD	Milky	Mineral, high	High Cl	2	High
Performa 30 E/BD	Transparent	Mineral, medium	Without EP additive	2	High
Performa 50 E/BD	Semi-transparent	Mineral, low	Medium	2	High
Performa 60 E/BD	Milky	Mineral, high	Absent	3	Low
Performa 80 E/BD	Transparent	Synthetic	Absent	1.5	High
Performa V10 E/BD	Transparent	Synthetic ester, medium	Natural EP	2	High

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Application guide

	Performa 20 E/BD	Performa 30 E/BD	Performa 50 E/BD	Performa 60 E/BD	Performa 80 E/BD	Performa V10 E/BD
Materials and concentrations	Steels (removal) 5%	Steels (removal) 4%	Steels (removal) 4%	Yellow alloy (brass, copper, bronze, etc.) 3%	Light grinding of steels 1.5%	Steels (removal) 3%
	Stiff steels (removal) 6%	Steels (grinding) 2.5%	Stiff steels (removal) 4%			Steels (grinding) 2.5%
	Aluminium (removal) 4%	Cast iron (removal) 3%	Cast iron (removal) 4%			Stiff Steels 5%
	Titanium (removal) 6%	Cast iron (grinding) 2.5%	Aluminium (removal) 5%			Cast iron (removal) 3%
			Steels (grinding) 2.5%			Cast iron (grinding) 2.5%
			Cast iron (grinding) 2.5%			Aluminium 5%
Refractometric correction factor	1	1	2	1.2	2.5	1.6
Lubricating power	••	•	••	•••	•	•••
Cleansing power	••	•••	••	•	•••	•••
What distinguishes it	Combines high lubricating performance with optimal system cleaning	Great detergency, excellent biostability, extraordinary anti-corrosive properties	High performance on a very wide range of mechanical processing	Cleaning in yellow alloy processing systems and good inhibitor power against copper ions	Exceptional cleansing of the grinding wheel and protection against low concentration corrosion	A modern, environmentally friendly and user-friendly GREEN formulation

Note: the expressed concentrations are refractometric.