

SHELL METALINA® D 200

Water extendible metalworking fluid

SHELL METALINA® D 200 is a full synthetic, high quality coolant free of chlorine, nitrite, secondary amines, and hexahydrotriazine. It is recommended for surface and cylindrical grinding of cast iron and ferrous metals.

Performance Features and Benefits

- Rapid settlement of metallic fines – optimizing surface finish of components
- Full rejection of tramp oil – better working conditions, provides cleaner components, reduced degreasing and disposal costs
- High biostability – very good resistance against development and proliferation of bacteria ensuring a safer work environment and prolonged sump life
- Excellent foaming behavior – Guaranteeing problem-free working operations when high pressure and good air release properties are needed
- Transparent solution – excellent visibility of the work piece
- Operator friendly

Main Applications

SHELL METALINA® D 200 is a fully synthetic water extendible solution recommended for surface and cylindrical grinding of ferrous materials.

Advice on applications not covered in this handbook may be obtained from your Shell representative.

Recommended Concentrations

The concentration varies depending on the type of machining operation, the water hardness, and the

required corrosion protection. The typical recommended concentration for use is:

- Grinding : 3 – 5 %

Storage Requirements

The product should be stored inside (41-104°C) for no more than one year. Freezing should be avoided.

Handling and Safety Information

Please note that mixed coolants work over long periods of time, therefore chemical contamination (hydraulic oils, greases, metal solutions, paints, rust inhibitors, etc.) or bacterial contamination (from dirty hands, work pieces, industrial grade water, sundry waste, etc.) can often occur. Contamination with the above materials should be minimized/eliminated. Regular monitoring of the in-use product is recommended to maintain optimum product condition and for determination of its useful working life.

For information on the safe handling, storage, or use of this product, refer to its Material Safety Data Sheet at <http://www.epc.shell.com/>. If you are a Shell Distributor, please call 1+800-332-6457 for all of your service needs. All other customers please call 1+800-237-8645 for all of your service needs.

Protect the Environment

Do not discharge into drains, soil, or water.

Typical Physical Characteristics

	Unit	Method	SHELL METALINA® D 200
Mineral Oil content	%		0
Kinematic Viscosity @ 20 °C	cSt	ASTM D 445	<5
Density @ 20 °C	kg/L	ASTM D 1298	1.09
pH of the emulsion at 3%		DIN 51369	9.4
Min Anti-Cor. Protection Limit (0-0)	%	DIN 51360/2	4.0
Refractometer Factor			2.5

These characteristics are typical of current production. While future production will conform to Shell specifications, variation in these characteristics may occur.