

SHELL METALINA D 202

Metal Working Soluble Cutting Oil

Chlorine free

DEA free

Hexahydrotriazine free

APPLICATIONS

Shell Metalina D 202 is a fully synthetic water extendable solution suitable for surface and cylindrical grinding of a variety of materials.

Due to the absence of emulsifier all contaminating tramp oil will be de-emulsified.

Shell Metalina D 202 allows the rapid settlement of metallic fines to optimise the surface finish of components.

Shell Metalina D 202 is extremely low foaming, has excellent resistance to bacterial attack and contains additives to minimise the sticky deposits often associated with fully synthetic formulations

-Proposed Concentrations:

Grinding : 3 - 5 %

Please take into consideration the water hardness and the material machined when you decide about concentration in between the figures stated hereby.

CHARACTERISTICS

Shell Metalina D 202 is oil and secondary amine free fully synthetic grinding fluid , formulated to minimise the problems with seal materials, painted surfaces and skin irritation often associated with fully synthetic long-life metal working fluids.

TYPICAL PHYSICAL CHARACTERISTICS OF SHELL METALINA D 202

	Unit	Method	SHELL Metalina D 202
Mineral Oil Content	%		0
Kinematic Viscosity 40°C	mm ² /s	ASTM D 445	21
Density 20°C	g/ml	ASTM D 4052	1.113
pH of the emulsion at 5 %			9,2
Min.Anti-Cor. Protection Limit (0-0)	%	DIN 51360/2	3
Refractometer factor			1.5
Acid Split Factor			-

These characteristics are typical of current production.

Whilst future production will conform to Shell's specification, variation in these characteristics may occur.

REMARKS

-Preparation of a solution:

Shell Metalina D 202 has a natural tendency to dissolve quickly in water when a solution is prepared whether manually or by a blending device.

Preparing a usefull solution is also possible using suitable mixing devices (Ventury or Volumetric type).

-Checking the concentration:

An evaluation of the concentration of a Shell Metalina D 202 is easily carried out either by refractometer or by chemical methods.

-Solution replacement:

Both when using Shell coolants for the first time and when replacing a used sump, it is suggested, first of all, to wash and disinfect carefully the circuit and the coolant tank. The above cleaning operation will give best results if it is carried out according to the following sequence of operations:

1) on starting the last working shift, 2% of Shell MWS Additive SC 201 or 202 (detergent System Cleaner) added to tank while work continues as normal or, in any case, while the coolant is kept circulating in the system for the same period of time.

2) Then, the tank and circuit are drained and the whole system carefully rinsed. If the system is a single one with a rather complex design or if it is a centralized one, we suggest the removal of any sludge from areas of stagnation.

-Health and Safety

More information you will find in the material safety data sheet.

-Storage

Recommended temperature: 5 - 40 °C

Storage time: 1 year

Storage class (VCI-concept): 12

-Compatibility

Shell Metalina D 202 has been developed to be fully compatible with Shell Slideway, Hydraulic and Gear oils and is compatible with materials commonly used in the construction of machine tools.