



## **SHELL GARIA 203 M-22 & -32**

*SHELL GARIA OIL GP 22 & -32 (Previous name)*

### **Metal Working**

#### **Neat Cutting Oil**

- Chlorine free
- Low aromatic components
- Low oil mist and vapour
- Free of heavy metals

### **APPLICATIONS**

Shell Garia 203 M-22 & -32 are neat cutting oils for general machining on automatic lathes, gear hobbing and on thread- or tooth-flank grinding machines. The products are particularly for working on light alloyed, low carbon steels and aluminium or magnesium alloys.

### **CHARACTERISTICS**

Shell Garia 203 M-22 & -32 are based on hydrotreated mineral oils with a low aromatic content. A combination of polar, extreme pressure and anti wear additives provide the oils with high load carrying properties. The oils provide good tool life and good surface finish of the machined workpieces. High efficient anti mist additives reduce the mist load in the air.

Due to the active sulfur in the Shell Garia 203 M-22 & -32 there is a risk of staining yellow metals.

### **TYPICAL PHYSICAL CHARACTERISTICS OF SHELL GARIA 203 M-22 & -32**

	Unit	Method	Shell Garia 203 M-22	Shell Garia 203 M-32
Kinematic viscosity		ASTM D 445		
• at 20°C	mm <sup>2</sup> /s		47	72
• at 40°C	mm <sup>2</sup> /s		22,0	32,0
• at 100°C	mm <sup>2</sup> /s		3,8	5,1
Density at 20°C	kg/m <sup>3</sup>	ASTM D 4052	865	868
Flash point COC	°C	ASTM D 92	190	200
Cu-Corrosion Test	Alfa	ASTM D 130	4b - 4c	4b - 4c
Appearance			Yellow	Yellow

These characteristics are typical of current production.

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

### **REMARKS**

#### **-Storage**

Recommended temperature: 5 - 40 °C

Storage time: 3 years

Storage class (VCI-concept): 10

#### **-Compatibility**

With other Garia oils or similar based neat cutting oils.

#### **Health and Safety**

For further information please mind the current material safety data sheet.

Optimis Code: 901L2455 (Shell Garia 203 M-22)

901L2456 (Shell Garia 203 M-32)