



SHELL GARIA 601 M-12 & -22 & -32 & -40

SHELL GARIA OIL BX 12 & -22 & -32 & -40(Previous name)

Metal Working

Neat Cutting Oil

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

APPLICATIONS

Shell Garia 601 M-12 & -22 & -32 & -40 are neat cutting oils for machining of high alloyed steels, stainless, heat resistant or austenitic steels and aluminium or magnesium alloys. The oils show excellent results by working with many difficult operations like broaching, deep-hole drilling, tapping, shaping or shaving of gears. Shell Garia 601 M-12 & -22 & -32 & -40 products are also very good grinding oils.

CHARACTERISTICS

Shell Garia 601 M-12 & -22 & -32 & -40 is based on hydrotreated mineral oils with a low aromatic content. A well balanced combination of polar, extreme pressure and anti wear additives provide the oils with high load carrying properties. The high additive content and controlled extreme pressure properties allow high rates of metal removal with resultant savings in machining costs. The oils provide good tool life and excellent 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 601 M-12 & -22 & -32 & -40, there is a risk of staining of yellow metals.

TYPICAL PHYSICAL CHARACTERISTICS OF SHELL GARIA 601 M-12 & -22 & -32 & -40

	Unit	Method	Shell Garia 601 M-12	Shell Garia 601 M-22	Shell Garia 601 M-32	Shell Garia 601 M-40
Kinematic viscosity		ASTM D 445				
• at 20 °C	mm ² /s		25	55	83	86
• at 40 °C	mm ² /s		12	22	32	40
• at 100 °C	mm ² /s		3,1	4,5	5,6	5,7
Density at 20 °C	kg/m ³	ASTM D 4052	882	882	888	890
Flash point COC	°C	ASTM D 92	165	190	200	200
Cu-Corrosion Test	Alfa	ASTM D 130	4b - 4c	4b - 4c	4b - 4c	4b - 4c
Appearance			Light brown	Light brown	Light brown	Light brown

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: 901L2465 (Shell Garia 601 M-12)
901L3849 (Shell Garia 601 M-40)

901L2466 (Shell Garia 601 M-22)
901L3848 (Shell Garia 601 M-32)