



# Shell Garia 405 M-22

## Neat cutting oil

Shell Garia 405 M-22 is a high quality neat cutting oil for general machining on automatic lathes, gear hobbing, and thread/tooth flank grinding machines.

### Applications

Shell Garia 405 M-22 is a neat cutting oil for use in general machining. In particular, it offers excellent results when working on low carbon and middle to high alloyed steel, aluminum alloys, and magnesium alloys.

Garia 405 M-22 contains active sulphur - there is a risk of staining of yellow metals.

Shell Garia 405 M-22 is free of chlorine and heavy metals.

### Performance Features and Benefits

- **Formulation based on hydrotreated mineral oils** - low aromatic content
- **Polar, extreme pressure, and anti-wear additives** - provide high load carrying properties
- **Good tool life**
- **Good surface finish of the machined work pieces.**
- **Highly efficient anti-mist additives** - reduce the mist load in the air

### Health & Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet, which can be obtained from your Shell representative.

### Protect the environment

Take used oil to an authorized collection point. Do not discharge into drains, soil, or water.

### Typical Physical Characteristics

	Unit	Method	Shell Garia 405 M-22	
Product Codes			Bulk	tbd
			Drum	tbd
			Pail	tbd
Appearance			Yellow	
Kinematic viscosity @ 40 °C	mm <sup>2</sup> /s	ASTM D 7042	22	
Density @ 20° C	g/mL	DIN EN ISO 12185	0.87	
Flash Point COC	°F	DIN EN ISO 2592	374	
Cu-Corrosion Test		ASTM D 130	4a	

These characteristics are typical of current production. While future production will conform to Shell's specification, variations in these characteristics may occur.