

Shell GARIA® 4402 CM-32

Heavy duty neat cutting oil

Shell GARIA® 4402 CM-32 is a premium quality, light colored, extreme pressure cutting oil manufactured from blends of solvent refined mineral oils and selected additives. It is intended for medium to high severity cutting operations of ferrous metals.

Performance Features and Benefits

- Excellent machining performance - high quality surface finish
- Controlled extreme pressure properties - allows for higher metal removal rate, encouraging lower machining costs
- Good tool life - minimum downtime and increased production
- Stain resistant on yellow metals

Main Applications

Shell GARIA® 4402 CM-32 is a heavy duty neat cutting oil for use in general machining of ferrous metals. This product makes it possible to consolidate to one cutting oil - covers many applications. Shell GARIA® 4402 CM-32 will not stain yellow metals.

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

Typical Physical Characteristics

	Unit	Method	Shell GARIA® 4402 CM-32
Kinematic viscosity @ 40 °C	cSt	ASTM D 445	33.5
Density @ 15 °C	kg/L	ASTM D 4052	0.89
Flash Point PMCC	°F	ASTM D 93	410

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

Storage Requirements

Shell GARIA® 4402 CM-32 should be stored under cover, avoiding extreme temperatures. Product should be kept sealed when not in use. When storage of product in the outdoors cannot be avoided, unopened containers should be kept on their side to avoid collection of moisture/water at top of container (where the bug or spout access may be).

Handling and Safety Information

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.