

Shell MACRON® 2208 M-4

Neat Cutting Oil

Shell MACRON® 2208 M-4 is a cutting oil for honing of cast iron and hardened steels.

Performance Features and Benefits

Shell MACRON® 2208 M-4 is a chlorine-free cutting oil with a very low aromatic content, with low oil mist and vapor.

A well-selected combination of polar, extreme pressure and anti-wear additives provide particularly high load carrying properties.

Shell MACRON® 2208 M-4 provides:

- Good tool life
- Good surface finish of the machined work pieces.
- Low mist load in the air due to the high efficient anti mist additives.

There is no risk of staining yellow metals.

Main Applications

Shell MACRON® 2208 M-4 is used for the honing of cast iron and hardened steels, hardened by tempering or cementation, producing short chips. The product is also used for the machining of light metals and glass at high cutting speeds or for the grinding of tools with diamond or ceramic wheels.

Typical Physical Characteristics

	Unit	Method	Shell MACRON® 2208 M-4
Appearance			Light Yellow
Density @ 20 °C	kg/L	ASTM 4052	0.827
Kinematic Viscosity			
@ 40 °C	cSt	ASTM D 445	4
@ 100 °C			1.6
Flash Point COC	°C	ASTM D 92	125
Cu Corrosion Test	Alfa	ASTM D 130	1a

These characteristics are typical of current production. While future production will conform to Shell specifications, variation in these characteristics may occur.

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

Storage Requirements

The product should be stored inside (41 – 104 °F) for no more than 2 years.

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.