



SHELL GARIA[®] ALUM - MAG OILS

Low viscosity, inactive cutting oils designed especially for aluminum and magnesium

Product Description

Shell Garia[®] Alum-Mag and Shell Garia[®] Alum-Mag Special are low viscosity, non-active cutting oils designed for use in light duty machining and grinding operations on ferrous and non-ferrous metals, particularly aluminum, magnesium and their alloys. Shell Garia[®] Alum-Mag and Shell Garia[®] Alum-Mag Special are transparent, light colored cutting oils that have been formulated using high quality refined base stocks. Shell Garia[®] Alum-Mag is a straight mineral oil. Shell Garia[®] Alum-Mag Special contains fatty oil which provides enhanced lubricity and improved surface finish. Both products have low viscosities which provide faster wetting of metal surfaces and penetration to the cutting zone. The products exhibit good cooling properties and oxidation stability.

Shell Garia[®] Alum-Mag is intended especially for the machining and grinding of aluminum, magnesium, and their alloys. It is also suited for grinding of other high machinability rating ferrous and non-ferrous metals when an extreme pressure product is not required.

Shell Garia[®] Alum-Mag Special is a mildly compounded product suitable for the light-duty machining and grinding of steel, aluminum, and magnesium where improved surface finish is required.

Shell Garia[®] Alum-Mag and Shell Garia[®] Alum-Mag Special are particularly suited for the machining of magnesium where the use of a water reducible metalworking fluid could be hazardous.

Applications

- light duty machining and grinding of magnesium, aluminum and their alloys
- glass grinding
- honing

Features/Benefits

- excellent cooling properties
- outstanding oxidation stability
- non-staining to both ferrous and non-ferrous metals
- helps improve surface finish on machined parts
- excellent filterability
- high dielectric properties

Typical Properties of Shell Garia® Alum-Mag Oils

	Test Method	Garia Alum - Mag	Garia Alum - Mag Special
		Product Code 55 gallon drum 5 gallon pail	
Appearance		Pale	Dark Pale
Odor		Mild	Mild
Gravity, °API @ 60°F	D 1298	30.0	29.8
Viscosity, cSt @ 40°C	D 445	9.5	10.8
Flash Point, COC, °F	D 92	295	310
Pour Point, °F	D 97	-40	-15
Fatty Oil		None	Present

Handling & Safety Information

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet <http://www.shell-lubricants.com/msds/>. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.