



## Advantage GP60-MD-SS

### Advanced Bio Stable Semi Synthetic EP Cutting Fluid

#### Description

**ADVANTAGE GP60-MD-SS** is a low odour, bio stable, semi synthetic, EP cutting fluid designed to give extended emulsion life. It mixes readily with water to provide excellent corrosion protection and lubricating properties.

**ADVANTAGE GP60-MD-SS** is phenol-free and is formulated from solvent refined mineral oil and a composite emulsifier, anti-corrosion, EP lubricating system, providing long emulsion life without the problems associated with coolant degradation caused by bacterial and fungal contamination. The high degree of corrosion protection has been achieved without the use of nitrite or other undesirable components.

#### Applications

**ADVANTAGE GP60-MD-SS** is suitable for the majority of machining operations and is designed for use in individual machines and central systems. It is recommended for the grinding and machining of all ferrous and most non-ferrous metals.

#### Features & Benefits

Exceptionally long sump life - typically in excess of 12 months

Outstanding resistance to bacterial and fungal development

Low maintenance and make-up rates

Excellent corrosion protection

Freedom from sticky deposits

Does not contain:

- Phenols
- Nitrites
- Zinc and heavy metals
- Dyes

## Typical Physical and Chemical Properties

### Concentrate:

Appearance	Amber fluid, slight haze
Density @15°C	1.030 kg/L
Odour	Mild Amine

### Emulsion:

Appearance	Pale translucent amber
Odour	Bland
pH @5%v/v	9.3
Refractometer Factor	1.4

### Corrosion:

IP287	Passes at 2.5%
IP125 (IP287 water)	Passes at 2.0%

## Recommended Usage Concentration

The recommended usage concentration of **ADVANTAGE GP60-MD-SS** for ultimate coolant life should be maintained above 3% concentration. This may be customised to suit individual needs or solutions, which may vary from time to time.

**MAPAL** strongly advises that you contact your Sales Representative to discuss before commencement of use. Below is a list of a range of uses and their recommended usage concentration.

<b>Ferrous grinding</b>	3%
-------------------------	----

<b>General machining</b> operations on mild steel, medium tensile steels and aluminium	4-5%
--	------

<b>For more severe operations</b> ie, cutting and milling on stainless and high speed steel and where ultimate tool life and fine surface finish are required	5-7%
---	------

## Concentration Checks

**MAPAL** recommends that periodic solution concentration checks of **ADVANTAGE GP60-MD-SS** should be carried out with a refractometer. Multiply the refractometer reading by 1.4 to obtain the actual concentration in percent. These can be routinely performed and organised through your sales representative.

## Usage, Storage and Disposal

### Usage

Before using **ADVANTAGE GP60-MD-SS** please ensure that all safety requirements as set out on the Material Safety Data Sheet are observed and adhered to, if ever in doubt please contact your sales representative who will be happy to help by addressing any concerns or questions

### Storage

Store according to instructions given on Material Safety Data Sheets.

### Disposal

Use an accredited Trade Waste Disposal Company, which complies with all the local environmental laws and regulations when disposing of any waste product.

## Health and Safety

Refer to Material Safety Data Sheet for the proper handling, use and disposal of this product. Houghton Australia takes no responsibility for misuse and or irresponsible use of this product.

## Product Shelf Life

Under normal conditions the recommended shelf life for **ADVANTAGE GP60-MD-SS** is Twelve (12) months, unless otherwise specified.

## Availability and Shipping Classification

**ADVANTAGE GP60-MD-SS** is available in 205 litre drums. Other sizes may be available upon request, please contact your sales representative.

**MAPAL** provides a reliable and professional delivery service of all its products. However if transportation of **ADVANTAGE GP60-MD-SS** is required it should be done in accordance to the Material Safety Data sheets, the local laws and regulations. It is highly recommended that an accredited transportation company should always be used.

## Warranty

The information given here is considered to be correct and is offered for your consideration, investigation and verification. No warranties are expressed or implied, since the use of our products is beyond our control.

**ADVANTAGE GP60-MD-SS is made in Australia**



MAPAL Australia Pty Ltd  
Unit 3/898, Humffray Street South,  
Mount Pleasant, VIC 3350  
Phone: 1300 825 267 | ABN 33 087 736 338  
www.mapal.com.au | sales@mapal.com.au