

# CASTROL® HYSOL® MB 50

**YOUR ANSWER** TO THE CHALLENGES OF MODERN MANUFACTURING

Multi-applications, multiple metals and harsh operating conditions make it difficult to keep metalworking fluids stable. Tramp oil, swarf and waste can leach into the system and promote bacterial growth, reduce the life of the fluid, compromise performance, and ultimately cause the system to fail. Combating this requires constant maintenance intervention that add complexity and cost to your operations. Castrol® Hysol® MB 50 makes a difference in the way you work, saving you time and money.

## CASTROL® HYSOL® MB 50 IS FORMULATED TO HELP YOU:

- Extend fluid life through a robust pH buffer package
- Reduce maintenance burden and machine downtime
- Minimize metalworking fluid usage, limit waste and reduce overall chemical spend
- Increase tramp oil rejection for easier removal, cleaner running systems and increased part cleanliness

## MULTI-PURPOSE PRODUCT CAPABILITIES

When your business performs a variety of operations over a range of different metals, using a single coolant often seems unachievable and with compromises between quality, practicality and the demand of your operations.

Developed to solve multiple challenges, Hysol® MB 50 can take you from a position of compromise to one of strength. It gives you the advantages of a single multi-metal, multi-purpose metalworking fluid with all of the expertise of Castrol® liquid engineering behind it.

## APPLICABLE SECTORS

- Aerospace, Automotive, Agriculture, Construction, Engine Manufacturing, Heavy Industry, Job Shops, Machine Manufacturing, Medical, Primary and Secondary Metals, Precision Machining

## TYPICAL CHARACTERISTICS

CONCENTRATE	
MINERAL OIL	HIGH
APPEARANCE	AMBER
EP ADDITIVE	YES
BORON	YES
AMINE	YES
CHLORINE	NO
FORMALDEHYDE RELEASING BIOCIDES	NO

EMULSION PROPERTIES	
REFRACTOMETER FACTOR	1.0
CONCENTRATION (%)	5 - 10
APPEARANCE	TRANSLUCENT MILKY
PH - 5% IN DI WATER	9.7
CAST IRON CHIP BREAK POINT	3%
WATER TOLERANCE CaCO <sub>3</sub>	0 - 600 PPM

Talk to your Castrol® representative today about a free trial.

# ADDRESS YOUR MACHINING CHALLENGES WITH **CASTROL® HYSOL® MB 50**



## **CHALLENGE: COOLANT LIFE**

Castrol® Hysol® MB 50 is formulated with a resilient additive technology that resists the negative effects of bacterial growth and contamination. Your metalworking systems maintain performance, so you can rely on them to work harder for longer.

### **INCREASE PRODUCTIVITY:**

- Less downtime for cleaning
- Reduce frequency of coolant top-ups

### **LOWER COSTS:**

- Reduce maintenance for cleaning contaminated systems
- Coolant lasts longer with lower waste disposal

### **SAFER WORKING ENVIRONMENT:**

- Bacteria-resistant technology reduces the need for tank side biocides



## **CHALLENGE: MULTIPLE COOLANTS, MULTI-METAL MACHINING**

Castrol® Hysol® MB 50 delivers consistent performance across multiple machining processes and metals. You can run your shop on a single coolant, simplify operations and make it easier to meet business demands.

### **INCREASE PRODUCTIVITY:**

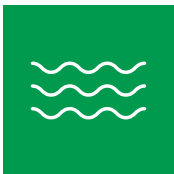
- Deliver consistently high quality surface finishes balanced with efficient production
- Eliminate risk of errors during top-ups with different coolants in the shop

### **LOWER COSTS:**

- Less downtime and manpower for coolant changeout
- Lowers inventory complexity by reducing the amount of metalworking fluids that are needed

### **SAFER WORKING ENVIRONMENT:**

- Reduce use of additives such as biocides and pH boosters



## **CHALLENGE: WATER HARDNESS TOLERANCE**

Castrol® Hysol® MB 50 is designed to operate across a range of water hardness (100 – 600 ppm CaCO<sub>3</sub>). It resists foaming and provides superior emulsion stability, reducing maintenance needs and simplifying operations.

### **INCREASE PRODUCTIVITY:**

- Reduce downtime for cleaning, coolant refresh and filter changes
- Reduce stoppages due to foam

### **LOWER COSTS:**

- Extend tool life, reduce need for maintenance and spares
- Reduce water treatment management

### **SAFER WORKING ENVIRONMENT:**

- Cleaner workplace and less chemical handling