

**CASTROL HYSOL™ MB 50**  
HIGH PERFORMANCE SOLUBLE METALWORKING FLUID

LOOKING FOR ONE  
PRODUCT TO MACHINE  
MULTI METALS ACROSS  
VARIOUS APPLICATIONS?  
YOU NEED...

THE TECHNOLOGY  
INSIDE

IT'S MORE THAN JUST OIL. IT'S LIQUID ENGINEERING.

  
**Castrol**  
Industrial

# CASTROL HYSOL™ MB 50 HIGH PERFORMANCE SOLUBLE METALWORKING FLUID

FEATURES	ADVANTAGES
Multi-metal application	Compatible with most aluminium alloys and ferrous metals, provides superior finish on tough to machine alloys, reduces the number of fluids needed and minimises product addition errors
Excellent bio-stability characteristics	Extends fluid life and reduces maintenance, machine downtime and use of biocide; offering improved operator acceptance
Hard and soft water stability	Low foaming and good emulsion stability in recommended water hardness/conditions
Excellent wetting properties	Reduces coolant drag out, delivers clean tools/ components with low top up requirements
Chlorine, phenol and nitrite free	Reduces disposal costs, improves HSE compliance and operator acceptance
Formaldehyde releasing free	Improves HSE compliance and operator acceptance

## SPOTLIGHT

Castrol Hysol MB 50 is a chlorine and sulphur free, water soluble fluid for machining and grinding of all grades of both aluminium and ferrous alloys. It provides the performance of heavy duty soluble oils without the unpleasant shop environments and high usage rates of traditional fluids. Its tight, stable emulsion provides extended system life and product stability.

## CASE STUDY – AEROSPACE COMPONENT MANUFACTURER, USA

Application:	Milling and drilling (HSS to Solid Carbide Tools)
Material:	Titanium, Aluminium 7075, Steel 321
Problem:	Foaming under high pressure (1,000 psi), Short tool life (1 part per end mill)
Machine/Sump:	Single sump: 1,000 litres
Previous product:	Semi synthetic cutting fluid used at 6-7% concentration

### CUSTOMER BENEFIT USING CASTROL HYSOL MB 50 @ 6-7% CONCENTRATION

No foaming, even under high pressure (1,000 psi +); tool life on Steel 321 increased significantly (10 parts per end mill); significant reduction of overall cost per part and an improved surface finish.

The information and recommendations contained herein are based upon laboratory research, experience in the field and/or state-of-the-art procedures, and are believed to be accurate and reliable. However, they are provided as information only and in no way modify, amend, enlarge, or create any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED. Please contact your Castrol expert for any trials, discussions and all conversions.

## ONE PRODUCT FOR ALL MACHINING REQUIREMENTS ON ALUMINIUM AND FERROUS ALLOYS

Castrol Hysol MB 50 is recommended for machining and grinding of all grades of aluminium as well as ferrous alloys. Castrol Hysol MB 50 provides heavy-duty machining performance where typically soluble oils were required.

## MACHINING PERFORMANCE OF A HEAVY-DUTY SOLUBLE OIL WITH THE BIO-STABILITY OF A SEMI SYNTHETIC

Castrol Hysol MB 50 utilises chlorine-free and sulphur-free technology, combined with an excellent bio-package for customers who require a heavy-duty product that provides excellent sump life and bio-stability.

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