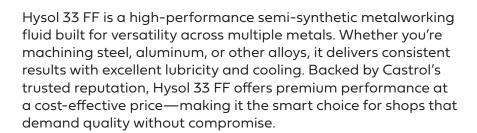
# Castrol<sup>®</sup> Hysol<sup>®</sup> 33 FF

# Cost-effective performance across multiple metals





- Consolidate fluids and eliminate the risk of top-up errors while simplifying inventory
- Extend sump life to reduce downtime and manpower for coolant changeout
- Reduce foam over in recommended water conditions
- Avoid the need for tank-side biocides with an integrated additive for microbial resistance.
- Deliver consistently high quality surface finishes balanced with efficient production

## Ideally suited for General Machining and Grinding

Hysol 33 FF is specifically developed for shops seeking a single fluid solution with broad multi-metal compatibility. By enabling the use of one fluid across various materials, it helps streamline operations, reduce the number of coolants in use, and minimizes the risk of cross-contamination or errors during top-ups. With fewer coolant changeouts required, shops benefit from reduced downtime and less manpower dedicated to maintenance—boosting productivity and operational efficiency.

#### Applicable sectors

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

#### Typical characteristics

## Concentrate

Mineral Oil	Yes
Appearance	Amber
Chlorides	No
Chlorinated Paraffin	No
Sulfur	No

#### **Emulsion Properties**

Water Tolerance, gpg	6 - 35
Cast Iron Chip Break Point	3%
pH – 5% in DI Water	9.2
Appearance	Clear to slight hazy
Concentration (%)	Grinding 4-7%; General Machining 5-8%
Refractometer Factor	1.54







## **Challenge:**

### **Coolant life**

Castrol® Hysol® 33 FF 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:

- Anti-corrosion properties to protect machine tools and parts
- Reduce frequency of coolant top-ups

#### Lower costs:

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



## Challenge:

## **HSE** performance

Castrol® Hysol® 33 FF includes a bacteria-resistant technology that reduces the need for tank side biocides. It helps meet your local legislative requirements and improves worker safety and acceptance.

#### Increase productivity:

- Reduces the volume of waste fluid that needs to be treated
- Cleaner workplace and less chemical handling

#### Lower costs:

- Reduces the need for additives such as biocides and pH boosters
- Reduces stoppage due to foam



## **Challenge:**

## Hard water stability

Castrol® Hysol® 33 FF is designed to operate across a range of water hardness. It resists foaming and scum formation and it's emulsion stability reduces maintenance needs and simplifies 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
- Eliminate need for water treatment

