

# Castrol® Hysol® 11 FF

Affordable performance  
from a long-lasting soluble

Castrol® experts have expanded the diverse Hysol® range to introduce Hysol® 11 FF, a mineral based, soluble coolant. The new metalworking fluid is suitable for cast iron and low-alloy steel metals and offers the essential benefits – dissipates heat, decreases friction, flushes away chips and offers corrosion protection – at a great value for machine shops. You pay for the performance you need with all of the expertise and quality of Castrol® engineering behind it.

## Castrol® Hysol® 11 FF is formulated to help you:

- Enhance machining performance and surface finishes
- Extend fluid life thereby reducing maintenance and machine downtime
- Reduce foam over in recommended water conditions
- Keep machines and tools clean with less coolant drag out

## Applicable sectors

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

## Typical characteristics

### Concentrate

Mineral Oil	<b>Yes</b>
Appearance	<b>Amber</b>
Chlorides	<b>No</b>
Biocide	<b>No</b>

### Emulsion Properties

Refractometer Factor	<b>2.7</b>
Concentration (%)	<b>Grinding 4-6%; General Machining 5-10%</b>
Appearance	<b>Translucent Milky</b>
pH – 5% in DI Water	<b>9.42</b>
Cast Iron Chip Break Point	<b>4%</b>
Water Tolerance, gpg	<b>6 - 35</b>



Soluble coolant with  
a cost advantage

# Castrol<sup>®</sup> Hysol<sup>®</sup> 11 FF



## **Challenge:** Coolant life

Castrol<sup>®</sup> Hysol<sup>®</sup> 11 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

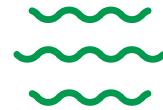
Castrol<sup>®</sup> Hysol<sup>®</sup> 11 FF includes a bacteria-resistant technology that reduces the need for tank side biocides. It helps meet your local legislative requirements and improves worker safety and acceptance.

### **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<sup>®</sup> Hysol<sup>®</sup> 11 FF is designed to operate across a range of water hardness. It resists foaming and scum formation and its 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

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