

Castrol® Hysol® 11 FF

Long-lasting stability in a budget-friendly 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 ferrous 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	Yes
Appearance	Amber
Chlorides	No
Biocide	No

Emulsion Properties

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



Soluble coolant with
a cost advantage

Castrol[®] Hysol[®] 11 FF



Challenge: Coolant life

Castrol[®] Hysol[®] 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

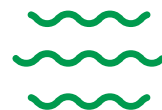
Castrol[®] Hysol[®] 11 FF includes a bacteria-resistant technology that reduces the need for tank side biocides. It helps meet your local legislative requirements and improves worker safety and acceptance.

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[®] Hysol[®] 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