

CASTROL[®] HYSOL[®] SL 45 XBB

LONG-LASTING,
HIGH-STABILITY
CUTTING FLUID
FOR AEROSPACE



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

 **Castrol** ***HYSOL XBB***



CASTROL® HYSOL® SL 45 XBB: SAFE, LONG-LASTING PRODUCTIVITY WITH AEROSPACE ALLOYS.

As an aerospace engineer, you deliver precise, lightweight parts – in advanced metals – to the tightest tolerances. But you can't compromise on productivity or safety on the machining floor.

New environmental constraints and safety regulations are making it harder than ever to deal with bacterial and fungal growth in cutting fluids. Manufacturers increasingly need an alternative to cutting fluids with boron, biocides and formaldehyde-releasing agents (FRAs) – without sacrificing part quality or system life.

THE IDEAL SOLUTION FOR AEROSPACE

Castrol Hysol SL 45 XBB was specifically created to address these challenges, while delivering outstanding machining performance on a wide range of modern aerospace alloys.

Based on Castrol's proven XBB technology platform, it maintains stable, productive manufacturing conditions for longer than conventional cutting fluids* – and is formulated without boron, biocides or formaldehyde-releasing agents.** In tests, aircraft manufacturers have also eliminated service additive top-ups, giving a cost saving while improving safety.

And far from compromising part quality, Castrol Hysol SL 45 XBB has demonstrated excellent wetting properties when deployed in the field, resulting in cleaner machines and working environments. It also improves machining performance and surface finish,[†] while reducing drag-out.

CURRENT OEM APPROVALS:

- Boeing
- Airbus
- Safran
- Bombardier

AN OPPORTUNITY TO IMPROVE

Castrol Hysol SL 45 XBB gives aerospace engineers the opportunity to avoid the compromise between safety, quality, productivity and cost:

- Minimize downtime, cleaning and tool costs by extending your fluid performance
- Enhance productivity with stable, consistent machining conditions
- Comply with current and incoming local disposal regulations around boron, and safety regulations around biocides and formaldehyde-releasing agents
- Save money and improve safety by reducing or eliminating service additive top-ups
- Rationalize your cutting fluids, thanks to Castrol Hysol SL 45 XBB's excellent performance across aluminium and titanium alloys
- Reduce fluid consumption as a result of less drag-out

PROVEN ON TEST: SAFETY, PERFORMANCE AND COST

A global aircraft manufacturer tested Castrol Hysol SL 45 XBB to stay ahead of new EU regulations. By eliminating boron and formaldehyde-releasing agents, it found:

- **Higher cutting performance** than its existing cutting fluid
- **Happy machine operators** due to new, safer formula and enhanced surface finish
- **Lower system costs** from eliminating service additive top-ups

A major aircraft component manufacturer based in the USA sought a new machining fluid – one that was industry approved, but didn't compromise performance. Hysol SL 45 XBB provided

- **Lower operating costs**—per machine product consumption dropped almost 50% and change out intervals increased 1.5 times over incumbent
- **Happy machine operators**—clean running, foaming visibly reduced and less carry-off on chips and parts observed

* Castrol Hysol SL 45 XBB outperformed other cutting fluids in laboratory emulsion stability tests. Customers have been able to eliminate the use of all biocide and fungicide additives with no adverse effects.

** May contain traces of boron and formaldehyde-releasing agents.

[†] Tapping torque test shows superior performance than common alternatives – typically improving tool life and surface finish. These results are supported by customer feedback, where Castrol Hysol SL 45 XBB has outperformed other fluids.

To learn more about Castrol Hysol SL 45 XBB, and how it can help you improve productivity and safety in aerospace, contact us at:

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