

TO FIND OUT HOW CASTROL'S INDUSTRY-LEADING INDUSTRIAL CLEANERS CAN BENEFIT YOU AND SUPPORT YOUR MANUFACTURING PROCESSES, TALK TO A CASTROL REPRESENTATIVE OR VISIT [THELUBRICANTORACLE.CASTROL.COM](http://THELUBRICANTORACLE.CASTROL.COM)

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



# CASTROL TECHNICLEAN XBC - INDUSTRIAL CLEANING FLUID

EFFECTIVELY REDUCES WASTE AND INCREASES PRODUCTIVITY

Image Source: Silberhorn GmbH

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## HOW CAN EFFECTIVE CLEANING ENSURE REDUCED WASTE AND INCREASED PRODUCTIVITY?

Modern cleaning fluids usually perform well in cleaning metal parts that are machined with latest technology soluble cutting fluids, but it can be challenging to separate certain coolant components from the wash bath, such as water soluble esters. As a result, the cleaning fluid quickly becomes contaminated to the point where it needs to be replaced to maintain its performance. And as bath life goes down, fluid costs go up – both for refills and disposal. So what's the solution?

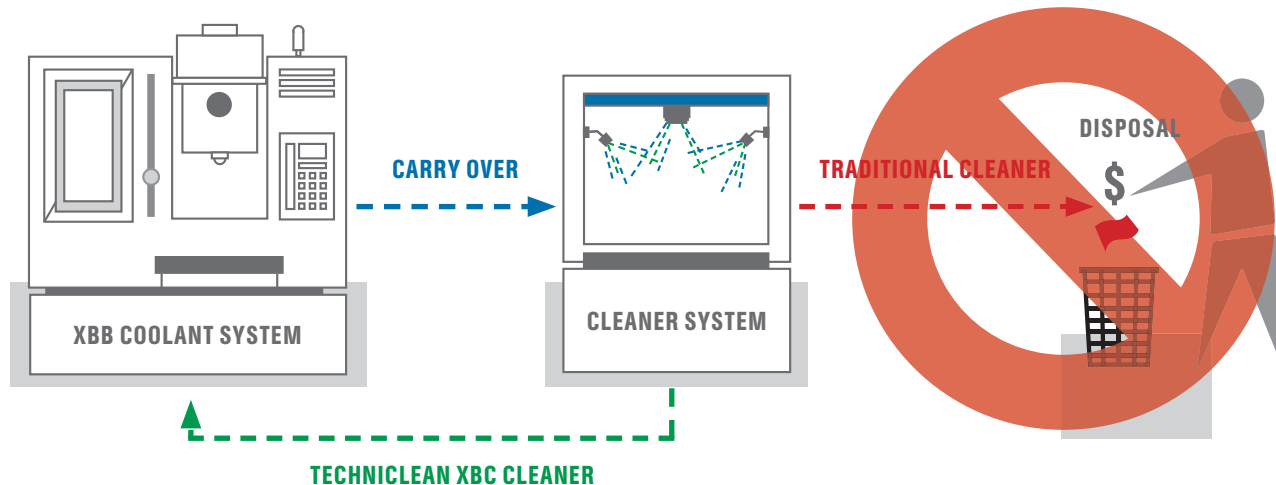
### INTRODUCING CASTROL TECHNICLEAN XBC Less water. Less waste. More productivity.

Castrol Techniclean XBC is a new high-performance cleaning fluid offer that increases productivity in precision metalworking process chains, while simultaneously reducing water consumption and waste generation.

Suitable for use with a wide range of modern spray, intensive flood-wash and high-pressure equipment, Techniclean XBC solves this problem through ready compatibility with Castrol Alusol and Hysol XBB cutting fluids.

Rather than being disposed to waste at the end of its useful cleaning life, Techniclean XBC can simply be recycled into the cutting fluid system with no loss of performance.

Water consumption is reduced accordingly, as are used-fluid disposal costs, which means Techniclean XBC helps contribute to the notion of a 'circular economy' where waste and pollution are 'designed out' to reduce negative environmental impacts.



**Castrol Techniclean XBC cleaning fluid helps reduce waste to contribute to the 'circular economy'.**

*"Techniclean XBC is not just a cleaner that offers excellent performance in industrial metalworking process chains. Its compatible DNA to our Castrol Alusol and Hysol XBB coolants also allows companies to reduce their operational cost and help to optimise their environmental profile regarding the CO<sub>2</sub>-footprint."*

Michael Petzold, Global Product Manager at Castrol

PRODUCT FEATURES		TECHNICLEAN 80 XBC	TECHNICLEAN 90 XBC
TECHNICAL PERFORMANCE	MULTI-METAL	✓	✓
	CAST IRON CORROSION PROTECTION	✓	✓
	HIGH PRESSURE APPLICATION	✓	✓
	LOW TEMPERATURE APPLICATION	✓	✓
	HARD WATER STABILITY	✓	✓
	RECYCLABLE IN XBB COOLANTS	✓	✓
FORMULATED WITHOUT	BORON	✓	✓
	FORMALDEHYDE RELEASING BIOCIDES	✓	✓
	MONOETHANOLAMINE (MEA)	✗	✓

## CASTROL TECHNICLEAN XBC IN ACTION

In order to illustrate the effectiveness of Castrol Techniclean XBC, consider the following report from one of our customers:

This automotive OEM supplier was disposing 400,000L of used cleaning solution to waste annually. After switching to Castrol Techniclean XBC, waste volume could be reduced to 150,000L, with 250,000L of solution being recycled into the Castrol XBB coolant system.

The use of Techniclean XBC not only reduced waste volume and unpleasant odours in both cleaning and coolant systems, but also cut operational costs by 25,000€ annually (based on waste disposal costs of 100€ per 1,000L).

### REPORTED ANNUAL REDUCTIONS:



- Reducing the cleaning solution disposal by 250,000L resulted in a saving of 25,000€
- Decreasing the coolant fresh water consumption by 250,000L

## FIND THE PERFECT CASTROL TECHNICLEAN XBC VARIANT FOR YOUR SPECIFIC APPLICATION

Castrol Techniclean XBC is formulated without boron, and formaldehyde releasing biocides to comply with the latest HSE legislation. Techniclean XBC is also available in two variants to meet local requirements – Techniclean 80 XBC containing MEA (Monoethanolamine) and Techniclean 90 XBC formulated without MEA.