



# Unlock more from your coolant

with Castrol CareCut SL 10 XBB

A synthetic ester-based water-miscible coolant formulated without mineral oil helping you move forward with confidence, efficiency, and control



# Today's high-performance machining needs a high-performance fluid

As factories push for tighter tolerances, faster cycle times, and cleaner operations, all while staying on budget - the demands on metalworking fluids have never been greater. Some traditional mineral oil-based coolants often fall short, leaving residues, requiring frequent maintenance, and struggling to meet modern health and safety standards. That's why forward-thinking manufacturers are switching to synthetic ester-based solutions like Castrol CareCut SL 10 XBB. Engineered for cleaner running, longer tool life, and superior surface quality, it's the cutting fluid that helps you move forward - with confidence, efficiency, and control.



## Why switch from mineral oil to synthetic ester?

Synthetic Ester-based water-miscible coolants deliver cleaner running, longer tool life, and more reliable machining.

### Key benefits of synthetic esters

- Naturally higher lubricity than mineral oils → Smoother cutting, longer tool life
- Leave less sticky residue creating cleaner machines → Less maintenance, fewer issues
- Provides superior emulsion stability that creates a longer sump life → Reduced changeouts and waste

# Castrol CareCut SL 10 XBB

## Key advantages

- **Cleaner machines, less maintenance**

Helps minimize oily and calcium residues — reducing cleaning downtime and extending system life

- **Longer tool life**

A Swedish manufacturer advised they achieved a 200% improvement in corundum grinding tool life versus previous standard synthetic cutting fluid

- **Stable emulsion across water hardness**

Maintains opalescent quality from soft to hard water (5°dH to 100°dH), with low foam, low drag out and soap formation

- **Improved surface quality**

Delivers excellent lubricity for smoother finishes. Outperformed 10 competitor products in steel grinding trials

- **Safe operators**

Free from CMRs (carcinogenic, mutagenic, reprotoxic) and biocides — supports a healthier working environment and aligns with modern H&S standards

- **Versatile across metals & applications**

Proven performance from ferrous to aluminum alloys

## Real-world results

Castrol Carecut SL 10 XBB has been trialled across in applications in Europe with the following results:

- A bearing manufacturing facility advised their tool life had been increased
- An auto manufacturing facility advised they achieved higher surface quality
- A machine Manufacturer advised they experienced improved cleanliness vs mineral oil competitors, reduced drag-out and improved machine visibility

Across Europe we found Castrol Carecut SL 10 XBB delivered consistent performance at multiple OEMs and water conditions.

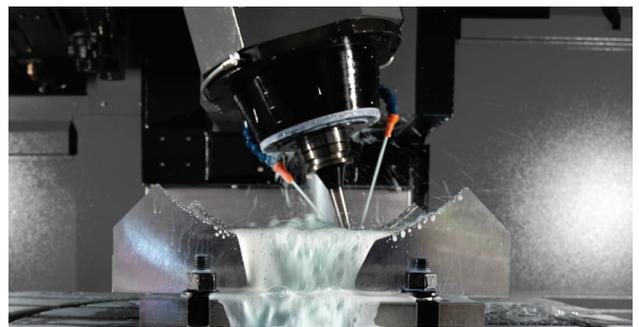


# Application and technical data

## CareCut SL 10 XBB

	Cast Iron	Low alloyed steel	High alloyed stainless steel	Aluminum alloys	Yellow metals
Grinding	• •	• •	• •	•	•
Milling, turning (general machining)	• •	• •	•	•	•
Drilling	• •	• •		•	•
Reaming, tapping	• •	•		•	•
Broaching	• •	•		•	•
Possible application, please consult Castrol representative prior to use Suggested core application					

Concentrate	
Mineral oil [%]	0
EP/AW-Additive	Yes (P)
Boron/Formaldehyde	Free
Emulsion	
Appearance	Opalescent
pH-value (5%)	9.8



Grinding	4-6%
General machining	5-10%
Water range	50-800 ppm CaCO <sub>3</sub>

## Ready to move forward?

Castrol CareCut SL 10 XBB helps you unlock cleaner, safer, and more productive machining - so your factory can run to budget and deliver high-quality parts with confidence.



Find out more  
at [castrol.com/xbb](https://www.castrol.com/xbb)

### Trial XBB technology for yourself

Don't take our word for it: put our Castrol XBB range to the test in your own plant, and see the difference they make. To arrange a trial, contact Castrol today.

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