**July 2019**

**COMPLETING THE CIRCLE**

**Castrol launches recyclable metalworking cleaning fluid**

*Recyclable Castrol Techniclean XBC metalworking cleaning fluid reduces waste, improves sustainability and contributes to the circular economy*

Castrol, a leading global lubricants business, has launched its first recyclable high-performance metalworking cleaning fluid range, Castrol Techniclean XBC. The new range enables metalworking operations to increase productivity in precision manufacturing processes while reducing water consumption by up to 60%1,lowering waste disposal costs1 and improving health and safety.

While most modern metalworking cleaning fluids are effective at removing light neat oils, soluble oil coolants and particulates, they often have difficulties in separating certain metalworking fluid components from the wash bath. Once soil loading reaches a critical level contaminated cleaning fluid needs to be replaced. As a result, both water and cleaning fluid use is increased and higher waste disposal costs inevitably follow.

Castrol Techniclean XBC is different. In addition to its excellent demulsifying performance that allows easy skimming and a long bath life² it is also designed to have high levels of compatibility with Castrol Alusol and Hysol XBB cutting fluids. This means that, rather than being disposed of at the end of its useful cleaning life, it can be recycled into the cutting fluid system without compromising performance. This helps to cut water consumption and to reduce or even completely eliminate used cleaning fluid disposal costs.

“Techniclean XBC doesn’t only offer excellent performance in industrial process cleaning.” said Michael Petzold, Global Product Manager at Castrol. “Techniclean XBC represents a potential step forward in the drive towards ‘zero waste’ manufacturing, where durability and reusability are among the essential elements of the circular economy.”

Laboratory tests and customer case studies have demonstrated the low foaming2 characteristics of Castrol Techniclean XBC across a wide temperature range, and its suitability for use in low temperature cleaning operations in modern spray, intensive flood-wash and high-pressure equipment.

Castrol Techniclean XBC is formulated without Boron or formaldehyde releasing biocides3. It is available in two variants, to meet certain local regulations: Techniclean 80 XBC containing MEA (Monoethanolamine); and Techniclean 90 XBC, which is formulated without MEA3.

**Notes:**

1. Based on compatibility, emulsion stability, and tapping torque (lubricity) lab tests and customer case studies. Both Techniclean 80 and 90 XBC, were recycled into cutting fluid systems at end-of-life, rather than disposed of, which proved to reduce water consumption and waste disposal costs by up to 60%.
2. Based on 2017 Castrol’s laboratory tests and 2018 customers’ trials.
3. May contain traces of Boron.

**About Castrol**

Castrol, one of the world’s leading lubricant brands, has a proud heritage of innovation and fuelling the dreams of pioneers. Our passion for performance, combined with a philosophy of working in partnership, has enabled Castrol to develop lubricants and greases that have been at the heart of numerous technological feats on land, air, sea and space for over 100 years.

Castrol is part of the BP group and serves customers and consumers in the automotive, marine, industrial and energy sectors. Our branded products are recognized globally for innovation and high performance through our commitment to premium quality and cutting-edge technology.

To find out more about Castrol please visit [www.castrol.com](http://www.castrol.com)

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