

# HOW DOES CASTROL® SYNTILO® TACKLE THESE ISSUES?

Castrol® Syntilo® is a portfolio of advanced synthetic cutting fluids that can innovatively adjust their cooling and lubricating performance to meet the demands of high-machining speeds — without compromising quality.

When temperatures rise, the lubricating components of Syntilo are activated to provide exactly the right levels of lubrication to the cutting edge. This empowers the formula to delivery high-speed machining performance — with noticeably low levels of foaming.

Castrol's liquid engineers have applied their deep understanding of developing synthetic cutting fluids and the demands of high-speed machining to create Syntilo products that meet different machining requirements.

## THE SYNTILO RANGE INCLUDES PRODUCTS SPECIFICALLY DEVELOPED TO:

- Extend fluid life in central systems and individual sumps.
- Deliver superior machining performance on difficult metals like Inconel and titanium alloys.
- Help meet environmental considerations and maintain a clean working environment.
- Offer extremely low foaming properties under high-pressure conditions.



#### **GETTING AHEAD ON SAFETY**

If you're currently using biocide additive top-ups in your cutting fluids — or using formulas that use boron or formaldehyde-releasing agents — then you could soon be affected by changes to legislation and best practice, such as the European Union's 10th Adaptation to Technical Progress (ATP) to the CLP (classification, labeling and packaging of substances and mixtures) regulation.

Castrol® Syntilo® 9930 BF, 9974 BF cutting fluids do not rely on boron, formaldehyde-releasing agents or biocides, so not only does using them protect your team, it also makes it easier to satisfy safety regulations — both today and tomorrow. Syntilo MR 9974 BF has these same benefits while also being mycobacteria and fungi resistant. Ultimately you have less maintenance, less expense and a safer working environment, without ever compromising on performance.

## ENGINEERED FOR HIGH-SPEED MACHINING, CASTROL® SYNTILO® HELPS YOU:

- Increase cutting speeds and feed rates to reduce cycle times.
- Settle chips quickly to prevent build-up.
- Improve productivity at high coolant pressures.
- Cool and lubricate machine tools at high speeds and in high-temperature operations

### **PRODUCT DATA**

- Y = Suitable varies by application (refer to PDS)
- N = Not Suitable
- C = Consult Castrol representative prior to use

BF = boron-free fluid; note: Syntilo 9913 is also boron-free

MR = mycobacteria resistant

		PERFORMANCE	TYPE	TYPICAL pH Range 5% dilution	APPEARANCE	REFRACTOMETER FACTOR	MATERIAL SUITABILITY						
	PRODUCTNAME						CASTIRON	LOW-MEDIUM ALLOYED STEEL	HIGH ALLOY and STAINLESS STEEL	ALUMINUM	TITANIUM Alloy	YELLOW METALS	TUNGSTEN CARBIDE
	Syntilo 9902	Light Duty	Oil-Rejecting	8.5-9.0	Transparent	2.3	Υ	Υ	Υ	N	С	N	N
	Syntilo 9730	Light to Medium Duty	Oil-Rejecting	8.8-9.2	Transparent	2.1	Υ	Υ	Υ	N	С	N	N
	Syntilo 9930	Medium Duty	Oil-Rejecting	8.9-9.4	Transparent	2.3	Υ	Υ	Υ	N	С	N	N
	Syntilo 9930 BF	Medium Duty	Oil-Rejecting	8.1-9.1	Transparent	2.1	Υ	Υ	Υ	N	С	N	N
	Syntilo 9926	Medium to Heavy Duty	Oil-Rejecting	8.5-8.9	Transparent	2.1	Υ	Υ	Υ	N	С	N	N
008	Syntilo 9904	Medium to Heavy Duty	Oil-Rejecting	8.8-9.2	Transparent	1.9	Υ	Υ	Υ	N	С	N	N
FERROUS	Syntilo 9954	Heavy Duty	Oil-Rejecting	8.0-8.8	Transparent	1.5	Υ	Υ	Υ	N	Υ	N	N
-	Syntilo 9974	Heavy Duty	Oil-Rejecting	8.7-9.3	Transparent	1.4	Υ	Υ	Υ	N	Υ	N	N
	Syntilo 9974 BF	Heavy Duty	Oil-Rejecting	8.7-9.5	Transparent	1.4	Υ	Υ	Υ	N	Υ	N	N
	Syntilo MR 9974 BF	Heavy Duty	Oil-Rejecting	8.7-9.4	Transparent	1.4	Υ	Υ	Υ	N	Υ	N	N
	Syntilo 1023	Medium Duty	Oil-Dispersing	9.1-9.5	Transparent	1.6	Υ	Υ	Υ	N	С	N	N
	Syntilo 2109	Medium Duty	Oil-Absorbing	9.1-9.6	Transparent	1.8	Υ	Υ	Υ	N	Υ	N	N
	Syntilo 9828	Light to Medium Duty	Oil-Rejecting	8.2-8.7	Transparent	2.2	Υ	Υ	Υ	Υ	Υ	N	N
MULTI- METAL	Syntilo 9918	Medium to Heavy Duty	Oil-Rejecting	7.4-7.8	Transparent	1.7	Υ	Υ	Υ	Υ	Υ	Υ	N
22	Syntilo 9913	Heavy Duty	Oil-Rejecting	7.2-7.6	Transparent	1.3	Υ	Υ	Υ	Υ	Υ	Υ	N
	Syntilo CR 68	General Carbide Grinding	Oil-Rejecting	8.9-9.5	Transparent	3.0	Υ	Υ	Υ	N	С	С	Υ

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