

Castrol® Syntilo® 9913

Synthetic fluid formulated
for machining and grinding
aerospace alloys



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 deliver high-speed machining performance — with noticeably low levels of foaming.

Castrol Syntilo 9913 is an oil-rejecting synthetic fluid specifically formulated for machining and grinding aluminum, titanium and other aerospace alloys. Unlike traditional synthetic fluids, Castrol Syntilo 9913 has a neutral pH to prevent staining of sensitive aerospace alloys and promote operator acceptance. Castrol Syntilo 9913 contains a combination of surfactant chemistries that offer superior lubrication and excellent cooling properties.

Castrol Syntilo 9913 benefits

- Neutral pH protects aluminum and other aerospace alloys and promotes strong operator acceptance
- Keeps machine surfaces and parts clean with a soft, transparent film residue
- Rejects tramp oils to the surface of the fluid for easy skimming
- Low foaming in all water conditions
- Inhibits microbial growth to extend fluid life in central systems and individual sumps
- Stable fluid suitable for a wide range of water conditions

Typical applications & metals

Castrol Syntilo 9913 is recommended for machining and grinding aerospace aluminum and other aerospace alloys.

Other sectors: Consult with your Castrol representative about applications in Automotive, Construction, Heavy Industry, Job Shops, Machine Manufacturing, Primary and Secondary Metals, Precision and High-speed Machining

Typical characteristics

Concentrate

Mineral Oil	No
Appearance	Light Yellow
Synthetic Lubricant	Yes
EP-Ester	Yes
Chlorine	No

Solution Properties

Refractometer Factor	1.4
Concentration (%)	Grinding 6-8% Machining 7-10%
Appearance	Translucent
pH – 5% in DI Water	7.4