



Product Data

Castrol Syntilo® 9913

High Performance Synthetic Cutting and Grinding Fluid

Description

Castrol Syntilo 9913 is an oil-rejecting synthetic fluid specifically formulated for machining and grinding aerospace aluminum and other aerospace alloys. Unlike traditional synthetic fluids, Syntilo 9913 has a neutral pH to prevent staining of sensitive aerospace alloys and promote operator acceptance. Syntilo 9913 contains a combination of surfactant chemistries that offer superior lubrication and excellent cooling properties. The severe machining capabilities of Syntilo 9913 make it an excellent choice for other aluminum alloys as well, especially when diamond tooling is used.

Advantages

- 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

Characteristics

	Unit	Test Method	Value
Appearance of Concentrate	-	Visual	Transparent yellow fluid
Appearance of Dilution	-	Visual	Transparent yellow fluid
pH of dilution @ 5%	@ 5%	-	7.2 – 7.6
Specific Gravity	@ 60°F (16° C)	CN-TM-086	1.056 – 1.078
Bulk Density	lbs/gal	-	8.9
Chlorine	-	-	No
Nitrites	-	-	No
Phenols	-	-	No

User advice

Syntilo 9913 is recommended for machining and grinding of aerospace aluminum and other aerospace alloys. Consult your Castrol Account Manager for questions regarding compatibility.

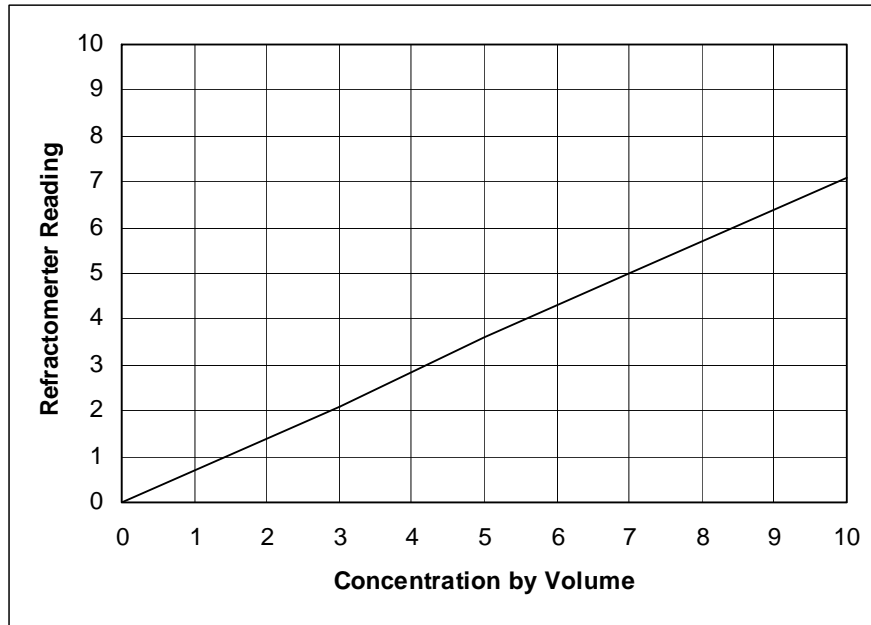
Recommended Applications & Dilutions

Grinding: 6 – 8%
Machining: 6 – 10%

The recommended minimum operating concentration for all applications is 6%. A 6% concentration of Syntilo 9913 will effectively protect ferrous machine tools from corrosion.

Additional Information Concentration Control

% Concentration	Refractometer Reading
3.0	2.1
5.0	3.6
7.0	5.0
10.0	7.1



Castrol Syntilo 9913
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