



Product Data

Castrol Syntilo® 9828 Synthetic Cutting & Grinding Fluid

Description

Castrol Syntilo 9828 is a water soluble, synthetic cutting and grinding fluid engineered for performance on today's aerospace aluminum alloys. It is formulated to achieve three critical benchmarks for modern cutting fluids: to be nonstaining to aerospace alloys, to provide lubrication for aluminum cutting performance, and to offer full synthetic composition for waste treatment. Syntilo 9828 is also approved by Boeing (BAC 5578) for use in machining composite fiber material.

Advantages

- Nonstaining to aluminum alloys and formulated to pass major aerospace tests.
- Low foaming action improves housekeeping, filtration, and cooling characteristics even in soft waters or high agitation situations.
- Prevents in-process rust and helps protect machine tools from damaging corrosion without the use of nitrated additives.
- Maintains excellent rancidity protection and rust protection in hard water.
- Chemistry compatible for machining composite fiber material. Boeing approved BAC 5578

Characteristics

	Unit	Test Method	Value
Appearance of Concentrate	-	Visual	Clear, Blue Fluid
Appearance of Dilution	-	Visual	Transparent, slightly hazy
pH of Concentrate	-	-	8.5 - 9.2
pH of Dilution	@ 5%	CN-TM-069	8.2 - 8.7
Specific gravity	@ 60° F (16° C)	CN-TM-086	1.06 – 1.08
Bulk density	lbs/gal	-	8.45

User advice

Syntilo 9828 can be used in central systems or individual sumps in a variety of medium duty applications on ferrous or nonferrous materials, including carbon fiber composites. Consult your Castrol Sales Engineer for questions regarding compatibility.

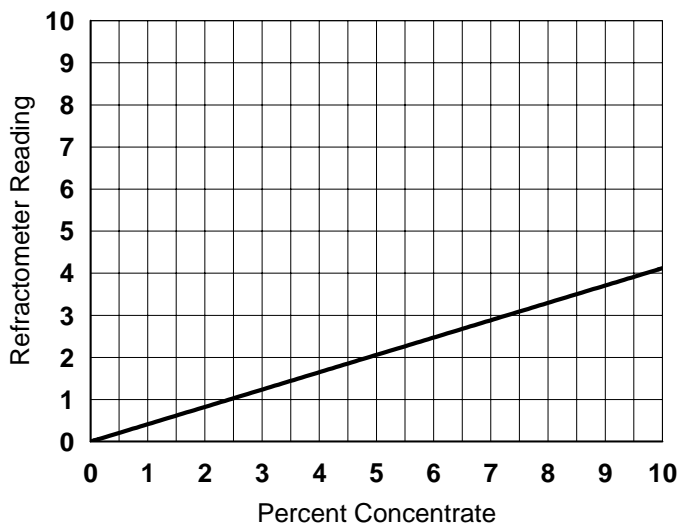
Recommended Applications & Dilutions

Grinding - I.D., O.D., centerless: 4.0 – 6.0%
Milling, drilling, turning, reaming, light duty broaching: 4.0 - 8%
Form milling, tapping, sawing: 4.0 - 10%

Additional Information Concentration Control

% Concentration	Refractometer Reading
3.0	1.2
5.0	2.1
7.0	2.9
10.0	4.1

This chart was prepared with dilutions in distilled water using an Atago Model N1A refractometer. It is important to realize that refractometer readings are dependent upon the type of refractometer and water used. Atago Model N1A refractometers are available through Castrol Industrial North America Inc.



Castrol Syntilo 9828
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