



265 Jefferson Avenue • Cleveland, Ohio 44113-2594
(216) 771-4300 • Ohio WATS (800) 362-1530
Fax (216) 771-1845

Product Information

Page 1 of 2

UNISYN B SEMI SYNTHETIC

Product Description

Unisyn B Semi Synthetic is a semi synthetic BIOSTABLE general purpose metalworking coolant containing approximately 20% mineral oil. This product, when diluted with water, forms a translucent amber emulsion which offers excellent workpiece visibility, good lubricity, and superior cooling. **Unisyn B Semi Synthetic** is designed for the machining and grinding of virtually all metals, except magnesium and is formulated without the use of chlorine.

Applications

Unisyn B Semi Synthetic is designed for use in all metalworking applications such as CNC milling, turning, drilling, tapping and grinding. **Unisyn B Semi Synthetic** is also excellent on cast iron and sawing applications.

Recommend Concentrations

Application	Concentration	Ratio	Refractometer
General Machining	7%	1:14	3.5
Grinding	4%	1:25	2.0
Tapping, Drilling & Reaming	10%	1:10	5.0

Mixing Instructions

When mixing coolant, it is best to use an automatic proportioner which accurately and thoroughly mixes coolant. To maintain recommended concentration, make-up or top-off should be added at one half of the desired concentration. Never add concentrate directly to the machine; this could cause inverted emulsions.

Concentration	4%	5%	6%	7%	8%	9%	10%
Ratio	1:25	1:20	1:17	1:14	1:12	1:11	1:10
Refractometer	2.0	2.5	3.0	3.5	4.0	4.5	5.0

Universal Oil Item Number 16 40 04

Refer to Universal Oil's Material Safety Data Sheet (MSDS) 16 40 04 for additional information.

UNISYN B SEMI SYNTHETIC

Typical Properties

Appearance – Concentrate	Amber liquid
Appearance – Dilution	Translucent amber
Residual Film	Soft, fluid
pH @ 20:1	9.1 ± 0.2
Specific Gravity @ 60° F.	1.04 ± 0.03
Lbs/Gallon	8.33 ± 0.1
Total Sulphur, wt%	None
Total Chlorine, wt%	None
Flash Point – PMCC	None

Universal Oil Item Number 16 40 04

Refer to Universal Oil's Material Safety Data Sheet (MSDS) 16 40 04 for additional information.

S:\user\nan\DocPDS\Industrial\Unisyn B Semi Synthetic 06 26 10.doc

265 Jefferson Avenue
Cleveland, Ohio 44113-2594

Universal Oil, Inc.

Phone 216 771 4300
Fax 216 771 1845