

# SERFILCO® UNITS OF MEASUREMENT EQUIVALENTS

TECHNICAL  
BULLETIN  
T-103A  
MARCH 2002

## MESH - INCH - MICRON CONVERSION CHART

Meshes / Lineal Inch US & ASTM Std. Sieve No.	Actual Opening		Meshes / Lineal Inch US & ASTM Std. Sieve No.	Actual Opening	
	Inches	Microns		Inches	Microns
10	.0787	2000	170	.0035	88
12	.0661 (1/16)	1680	200	.0029	74
14	.0555	1410		.0026	65
16	.0469 (3/64)	1190	230	.0024	62
18	.0394	1000	270	.0021	53
20	.0331 (1/32)	840		.0020	50
25	.0280	710	325	.0017	44
30	.0232	590		.0016	40
35	.0197 (1/64)	500	400	.00142	36
40	.0165	420		.00118	30
45	.0138	350	550	.00099	25
50	.0117	297	625	.00079	20
60	.0098	250		.00059	15
70	.0083	210	1,250	.000394	10
80	.0070	177	1,750	.000315	8
100	.0059	149	2,500	.000197	5
120	.0049	125	5,000	.000099	2.5
140	.0041	105	12,000	.0000394	1

### Units of Pressure and Head

Feet of water x 0.433 = lbs. / sq. inch (psi)  
 Lbs. / sq. inch (psi) x 2.307 = feet of water  
 Feet of water x 0.881 = inches of mercury  
 Inches of mercury x 1.135 = inches of water  
 Inches of mercury x .491 = lbs. / sq. inch (psi)

### Units of Volume

Cubic feet x 7.48 = gallons  
 Cubic feet x 1728 = cubic inches  
 Gallons x 0.134 = cubic feet  
 Gallons x 231 = cubic inches  
 Lbs. of water x 27.7 = cubic inches  
 Lbs. of water x .0160 = cubic feet  
 .00334 x D<sup>2</sup> x ht. = volume in gallons

### Units of Length (& micronic comparisons)

1 micron = .0000394 inches  
 Cocoa equiv. to 8 - 10 microns  
 Talcum powder equiv. to 10 microns  
 Average diameter human hair is 50 - 70 microns  
 Table salt equiv. to 100 microns  
 Microns x 25,400 = inches  
 .001 inches (1 mil) = 25.4 microns  
 Inches x 3.94 x 10<sup>-5</sup> = microns  
 Inches x 2.54 = centimeters

### Units of Temperature

1.8 x C° + 32° = °F  
 .56 (F° - 32°) = °C

### Conversions

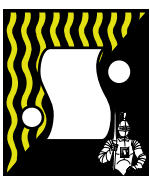
Gallons x 3.785 = liters  
 GPM @ 60 Hz x 3.154 = LPM @ 50 Hz

Tank size in gallons =  $\frac{L \times W \times H \text{ (in)}}{231}$

Tank size in gallons =  $\frac{L \times W \times H \text{ (FT)}}{7.48}$

1 gallon H<sub>2</sub>O = 8.3 lbs.  
 TDH in feet @ 60 Hz x .2117 = TDH in meters @ 50 Hz  
 1 mg/l = 1 part per million (ppm)  
 1 ppm = 1 lb. / 120,000 gallons H<sub>2</sub>O  
 1 lb. = 454 grams  
 1 kg. = 2.2 lbs.  
 Saybolt Universal Seconds (SUS) = 10 x Saybolt Furol (S.F.)  
 Saybolt Universal Seconds (above 250 SUS) =  
 4.62 x centistokes (Cs)

Centistokes =  $\frac{\text{centipoise}}{\text{specific gravity}}$



## SERFILCO®, LTD.

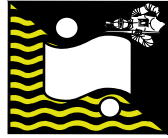
2900 MacArthur Blvd. 847-509-2900  
 Northbrook, IL 60062-2005 U.S.A. 800-323-5431  
 e-mail: sales@serfilco.com FAX: 847-559-1995  
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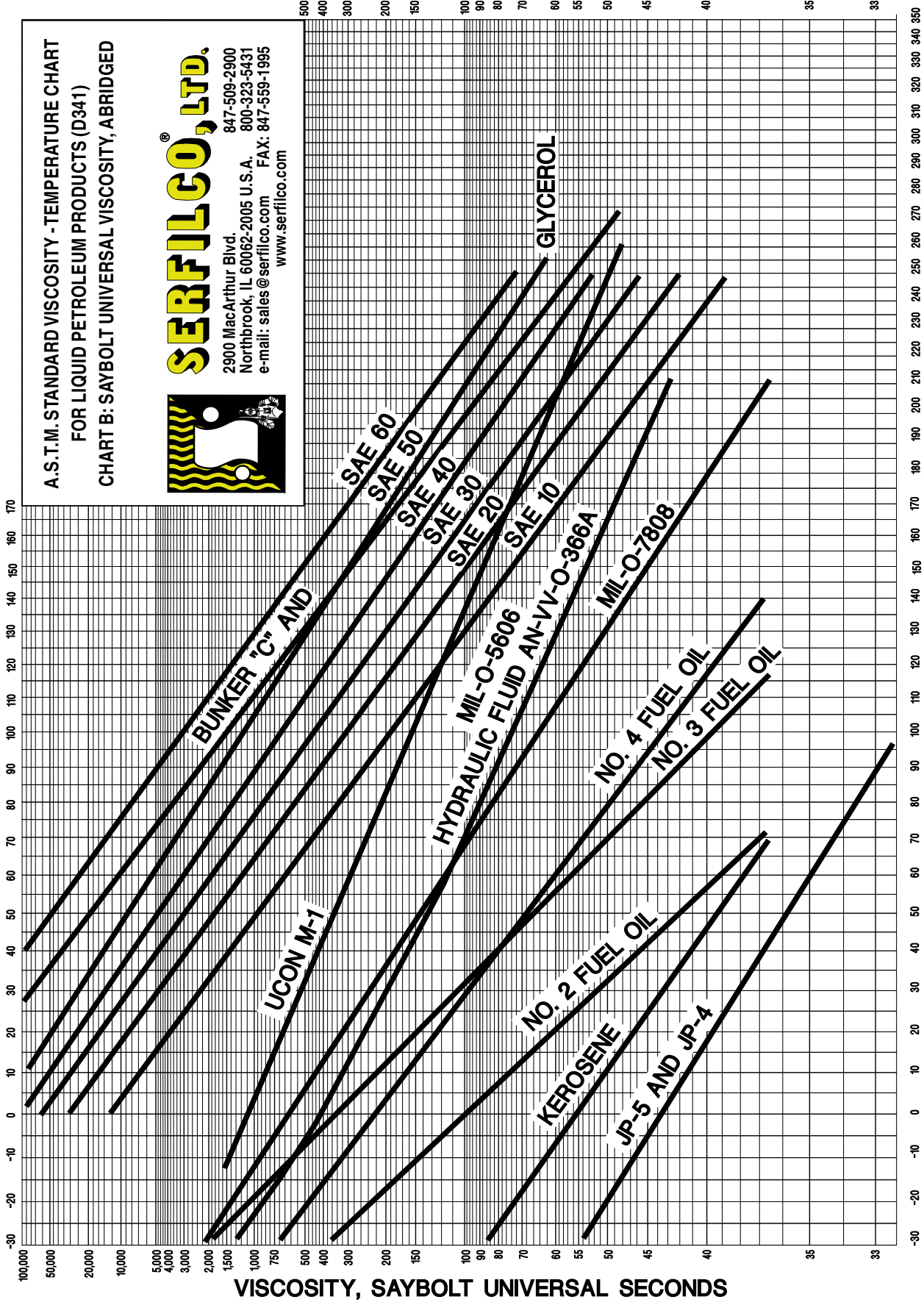
TEMPERATURE, DEGREES FAHRENHEIT

A.S.T.M. STANDARD VISCOSITY - TEMPERATURE CHART  
 FOR LIQUID PETROLEUM PRODUCTS (D341)  
 CHART B: SAYBOLT UNIVERSAL VISCOSITY, ABRIDGED



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