

Common Conversions

To Convert	Into...	Multiply by...
Barrel (U.S. liquid)	Gallons	31.5
Bars	Kgs/sq meter	10,200
Bars	Pounds/sq in	14.50
Centigrade	Fahrenheit	(C° x 9.5) +32
Cubic centimeters	Cu feet	.00003521
Cubic centimeters	Cu inches	0.06102
Cubic centimeters	Cu meters	.000001
Cubic centimeters	Gallons (U.S. liquid)	.0002642
Cubic centimeters	Liters	0.001
Cubic feet	Cu cms	28.320
Cubic feet	Cu inches	1,728
Cubic feet	Cu meters	0.02832
Cubic feet	Gallons (U.S. liquid)	7.48052
Cubic feet	Imperial gallons	6.23210
Cubic feet	Liters	28.317
Cubic feet/min	Cu cms/min	28.317
Cubic feet/min	Gallons/min	7.481
Cubic feet/min	Liters/min	28.32
Cubic feet/sec	Gallons/min	448.83
Cubic inches	Cu cms	16.39
Cubic inches	Cu feet	.0005787
Cubic inches	Cu meters	.00001639
Cubic inches	Gallons (U.S. liquid)	.004329
Cubic inches	Imperial gallons	.0036065
Cubic inches	Liters	0.01639
Cubic meters	Cu cms	1,000,000
Cubic meters	Cu feet	35.31
Cubic meters	Cu inches	61,023
Cubic meters	Gallons (U.S. liquid)	264.2
Cubic meters	Liters	1,000
Degree Fahrenheit	Degree Celsius	t° C = (t° F - 32)/1.8
Feet/min	Cms/sec	0.5080

To Convert	Into...	Multiply by...
Feet/min	Meters/min	0.3048
Gallons/min	Cu cms/min	3,785.412
Gallons/min	Cu feet/min	.1337
Gallons/min	Liters/min	3.785
Imperial gallons	Cu feet	.160459
Imperial gallons	Cu inches	277.274
Imperial gallons	Liters	4.54374
Imperial gallons	U.S. gallons	1.20032
Kilograms/sq cm	Pounds/sq ft	2,048
Kilograms/sq cm	Pounds/sq in	14.22
Kilograms/sq meter	Bars	.00009807
Kilograms/sq meter	Pounds/sq in	.001422
Liters	Cu cm	1,000
Liters	Cu feet	0.0353145
Liters	Cu inches	61.0234
Liters	Cu meters	0.001
Liters	Gallons (U.S. liquid)	0.264170
Liters	Imperial gallons	.220083
Liters/min	Cu cms/min	1000
Liters/min	Cu feet/min	.035
Liters/min	Gallons/min	.264
Pascal (Pa)	Bar	.00001
Pascal (Pa)	Pounds/sq in	.000145
Pounds/sq inch	Kgs/sq meter	703.1
Pounds/sq inch	Pascal (Pa)	6,895
Pounds/sq inch	Bar	.069
U.S. gallons	Imperial gallons	.83267
U.S. gallons	Cu cms	3785
U.S. gallons	Cu feet	.133681
U.S. gallons	Cu inches	231
U.S. gallons	Cu meters	.3785
U.S. gallons	Liters	3.785

Viscosity Conversion Table				
Saybolt Universal Seconds (SSU)	ISO-VG	CentiStoke	CentiPoise*	Typical Brands/Liquids at 100° F
31	2	1.0	0.876	Water
35	3	2.5	2.19	-
40	5	4.2	3.68	-
45	5/7	5.9	5.17	-
50	7	7.5	6.57	Kerosene
55	7/10	8.8	7.71	Atlantic Richfield/Duro 55 Hyd. Oil
60	10	10.5	9.20	Monsanto/Skydrol - 500 A
70	10/15	13.2	11.56	Mobil/Aero HFA Hydraulic Oil
80	15	15.7	13.75	No 4 Fuel Oil
90	22	18.2	15.94	Stauffer Chemical/Fyrquel 90
100	22	20.6	18.05	Conoco/Syncon Synthetic AW Hyd. Oil
150	32	32.0	28.03	Mobile/DTE 24 Hydraulic Oil
200	46	43.2	37.84	Citco/Glycol FR-40XD (Oil in Water)
300	68	65.0	56.94	SAE 20 Crankcase Oil
400	68/100	86.0	75.34	Sunoco/Sunvis 41 Hydraulic Oil
500	100	108	94.61	SAE 30 Crankcase Oil
750	150	162	141.91	SAE 40 Crankcase Oil
1000	220	216	189.22	Mobil/Paper Machine Oil - Type K
1500	320	323	282.95	SAE 50 Crankcase Oil
2000	460	431	377.56	Amoco/American Industrial Oil - No. 460
3000	680	648	567.65	SAE 140 Gear Oil
4000	1000	862	755.11	SAE 250 Gear Oil

* Centipoise are given for oil of 0.876 specific gravity. Relationship: centistokes X specific gravity = centipoise