

VISCOSITY

1 N sec / m ²	= 1 (kgm.m/sec ²) sec/m ² = 1 kg/m.sec = 3,600 kg/m-hr = 0.672 / ft.sec = 1,000 cp = 10 gr/c m.sec
1 Poise	= 1 g/c m.sec = 1 dyne.sec/cm ² = 1 (10 - N) sec/10 ⁻⁴ m ² = 0.1 Pa.s
1 Centipoise (cp)	= 1 m N.S/m ² = 1,000 μ. N.S /m ² = 1,000 μ Pa.s = 1 mPa.s = 0.01 poise = 2.42 lb/ft.hr = 3.60 kg/m.h = 1 m Pa.s (mili pascal second) = 10 ⁻³ NS /m ²
1 Stroke (ST)	= 1 cm ² /sec = 10 ⁻⁴ m ² /sec = 0.36 m ² /hr = 100 mm ² /s
1 CS	= 1 cp/1.14 = 1 mm ² /s (= cst)
1 SSU	= centistokes x 4.55
1 cst	= 1 mm ² /s = 10 ⁻⁶ m ² /s
1 ft ² /sec	= 929.03 cm ² /sec = 929 stroke
1 kps/m ²	= 9.81 Pa.s
1 m ² /s	= 10.7639 ft ² /s

THERMAL CONDUCTIVITY (열전도율)

1 Kcal/m ² .hr. °C	= 8.061 Btu/ft ² .h.°F = 0.672 Btu/ft.hr.°F
1 Kcal/m ² .hr. °C	= 0.2048 Btu/ft ² h.°F = 1.1628 W/mk = 1.163 x 10 ⁴ w/cm ² °C = 0.672 Btu/ft.hr.°F = 0.056 Btu/in.h °F
1 Btu/(hr) (ft ²) (°F/ft)	= 0.124 kcal /h.m. °C = 0.1442 W/mK = 12 Btu/(hr) (ft ²) (°F/in) = 1.49 kg.cal/(hr) (m ²) (°C/m) = 0.0173 watts/(cm ²) (°C/c m) = 0.124 kcal/h.m. °C = 0.1442 w/mk
1 Btu/hr.f ² .°F/in	= 12.4 kcal/h.m ² . °C/c m
1 Btu/hr.f ² .°F	= 0.0173 W/cm ² . °C = 1.0 pcu/hr.f ² . °C = 4.88 kcal/h.m ³ . °C = 0,002 w/in ² . °F = 5.68 x 10 ⁻⁴ w/cm ² . °C
1 g-cal / c m.sec. °C	= 242 Btu/hr.f.°F
1 ev	= 1.60210 x 10 ⁻¹⁹ J
1 ft.lbf	= 1.3558 J

열저항

1 m ² . h, °C/kcal	= 0.8598 m ² k/W = 3.6 x 10 ⁴ cm ² s °C/kcal = 4.881 ft ² h °F/Btu
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HUMIDITY

1 grain/lb	= 7 g/kg
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