

MET 101

Specific Heat, Albedo and Thermal Conductivity Tables

<u>Substance</u>	<u>Specific Heat (cal/g * C°)</u>
Water	1.00
Wet Mud	0.60
Ice (0°C)	0.50
Wood	0.42
Sandy Clay	0.33
Soil (average)	0.20
Sand	0.19
Granite	0.19
Air	0.17
Gold	0.031

<u>Substance</u>	<u>Albedo (%)</u>
Fresh Snow	95
Clouds (thick)	60 to 90
Clouds (thin)	30 to 50
Venus	78
Ice	30 to 40
Sand	15 to 45
Earth & Atmosphere	30
Mars	17
Grassy Field	10 to 30
Dry dirt - Soil	5
Water*	10
Forest	3 to 10
Moon	7

* = Daily Average

<u>Substance</u>	<u>Thermal Conductivity (watts per meter * C°)</u>
Still Air	0.023 at 20°C
Wood (pine)	0.13
Dry Soil	0.25
Water	0.60 at 20°C
Snow	0.63
Glass	0.8
Ice	2.1
Wet Soil	2.1
Sandstone	2.6
Granite	2.7
Iron	80
Silver	427