**Materials Chart**

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| **Material** | **Thermal Conductivity (W/m\*K)** | **Heat Capacity****(J/kg\*K)** | **Density (kg/m3)** |
| Aluminum | 163 | 893 | 2720 |
| Ceramic | 3.975 | 782 | 2600 |
| Glass | 1.339 | 753 | 2300 |
| Stainless Steel | 14.644 | 502 | 7920 |
| Copper | 397.48 | 385 | 8940 |
| Water | 0.603 | 4184 | 1000 |
| Air | 0.025 | 1004 | 1.29 |
| Polystyrene Foam (Styrofoam) | 0.026 | 1130 | 46 |
| Silicone Rubber | 0.335 | 1255 | 1300 |
| Wood (Red Oak) | 0.146 | 2385 | 610 |
| Plastic (water bottle) | 0.2 | 1000 | 1380 |