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| Substance | Specific heat J/***goC*** |
| Acetals | 1.460 |
| Air, dry (sea level) | 1.005 |
| Alcohol, ethyl | 2.440 |
| Alcohol, metyl wood) | 2.530 |
| Aluminum | .897 |
| Alumina, AL2O3 | .718 |
| Ammonia, liquid | 4.700 |
| Ammonia, gas | 2.060 |
| Argon | .520 |
| Asphalt | .920 |
| Bone | .440 |
| Boron | .960 |
| Boron nitride | .720 |
| Brass | .375 |
| Brick | .840 |
| Calcium silicate, CaSiO3 | .710 |
| Chalk | .750 |
| Clay, sandy | 1.381 |
| Concrete | .880 |
| Copper | .385 |
| Diamond (carbon) | .516 |
| Ice (0oC) | 2.093 |
| India rubber | 1.250 |
| Glass, crown | .670 |
| Glass, pyrex | .753 |
| Gold | .129 |
| Granite | .790 |
| Graphite (carbon) | .717 |
| Gypsum | 1.090 |
| Helium | 5.193 |
| Hydogen | 14.304 |
| Ice, water (-5oC) | 2.090 |
| Iron | .449 |
| Lead | .129 |
| Lithium | 3.582 |
| Lucite | 1.460 |
| Magnesia, MgO | .874 |
| Marble | .880 |
| Mercury | .140 |
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|  |  |
| Substance | Specific Heat J/***goC*** |
| Mica | .880 |
| Neon | 1.030 |
| Nitrogen | 1.040 |
| Nylon-6 | 1.600 |
| Nylon-66 | 1.700 |
| Olive oil | 1.790 |
| Oxygen | .918 |
| Phenol-formaldehyde moulding compounds | 2.500 – 6.000 |
| Platinium | .133 |
| Plutonium | .140 |
| Polyisoprene hard rubber | 1.380 |
| Polymethylmethacrylate | 1.500 |
| Polypropylene | 1.920 |
| Polystyrene | 1.300 – 1.500 |
| Polytetrafluoroethylene moulding compound | 1.000 |
| Porcelain | 1.085 |
| Potassium chloride | .680 |
| Pyroceram | .710 |
| Quartz, SiO2 | .730 |
| Quartz glass | .700 |
| Salt, NaCl | .880 |
| Sand, quartz | .830 |
| Scandium | .568 |
| Silicon | .705 |
| Silver | .235 |
| Soil, dry | .800 |
| Soil, wet | 1.480 |
| Teflon | 1.172 |
| Tin | .228 |
| Titanium | .523 |
| Tungsten | .132 |
| Tungsten carbide | .171 |
| Uranium | .116 |
| Water, pure liquid (20oC) | 4.182 |
| Wood | 1.700 |
| Zink | .388 |