

medium	thermal conductivity k W.m ⁻¹ .K ⁻¹	mass volume ρ kg.m ⁻³	mass heat capacity C_p J.kg ⁻¹ .K ⁻¹	thermal effusivity J.m ⁻² .K ⁻¹ .s ^{-1/2}
air	0.02638	1.161	1000.7	5.54
water	0.60652	997.05	4181.3	1590
stainless steel 310	12.67	7829	483	6922