

Software title: the calculator for the value of U

Background: In order to improve engineers' better calculation of heat and conductivity of materials, this software provides the thermal conductivity coefficient of each material for engineering. so as to avoid wasting too much time in inquiring the value of thermal conductivity coefficient of materials.

Key function: Assist engineers to inquire the thermal conductivity of each material, and make a calculator for calculating U value.

methods:

$$U = \frac{1}{R}$$

$$R = \frac{d}{\lambda}$$

$$R = R_1 + R_2$$

Table of the thermal conductivity of each material is shown below

λ	tpye of material
silver	429
copper	401
317	gold
237	aluminum
80	iron
67	tin
34.8	plumbum
0.14	PVC
0.21	PP
0.41	PE
0.14	glass
0.14	wood
1.28	beton
0.7	brick
steel	36