

Solar materials used for flat plate collectors.

1. The properties of the materials used for collectors can be classified as:

(a) Thermophysical properties such as thermal conductivity, heat capacity etc.

(b) Physical properties like density, tensile strength, melting point etc., and environmental properties like moisture penetration, corrosion resistance and degradation due to pollutants in atmosphere.

2. The material for absorber plate should have high thermal conductivity, adequate tensile strength and good corrosion resistance.

3. The common material used for absorber plate is copper because of high conductivity and resistance to corrosion.

• Other materials which are used for absorber plate are Aluminium, Iron, Brass, Silver, Tin and Zinc.