F16 Specific Heat, Equivalent of Heat and Thermal Expansion

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Experiments:

1.Specific heat of metal

2.Electrical equivalent of heat

3.Thermal expansion of metal

Specification:

1. Dual thermometer x1
   1. Measure range: - 50°C ~ 1230°C (- 50°F~1999°F)
   2. Resolution: ±0.75%
   3. Dual function meter's display
   4. Measurement select 0.1° or 1°
   5. Sensor type : Thermocouple K(NiCr-NiAl)

6. Record Maximum. and minimum reading and data hold.
7. RS-232/USB interface (optional)
8. Size: 180x72x32mm

2. Aluminum experimental platform x1

Aluminum alloy, a 3 D biconvex guide track ,on the top surface, is fastened by U-shaped clips at below and both sides, one of which is adhered to an meter of inclination of 45-degree. And the type of three-point level-supporter of the size 60 x12x4.5cm, at both ends, is subjected.

3. Thermal expansion test metal bar x3

Cupper, stainless and aluminum bar Φ6mm L500mm

4. Dial indicator with slide x1

Measure range:0~10mm

Resolution: 0.01mm

5. Bar heater x1

Heating wire hide in alum. slot support by AC/DC power supply to produce radiant heat to keep the test bar raise temperature.

6. Test bar stop x1
7. Calorimeter with heating wire x1

Double stainless layer vacuum tank 800ml with Styrofoam cover and heating wire acrylate cover

8. Specific heat test metal x3

Cupper, stainless and aluminum block. At top with tie stud small hall for temperature sensor

9. Acrylic transparent windshield x1