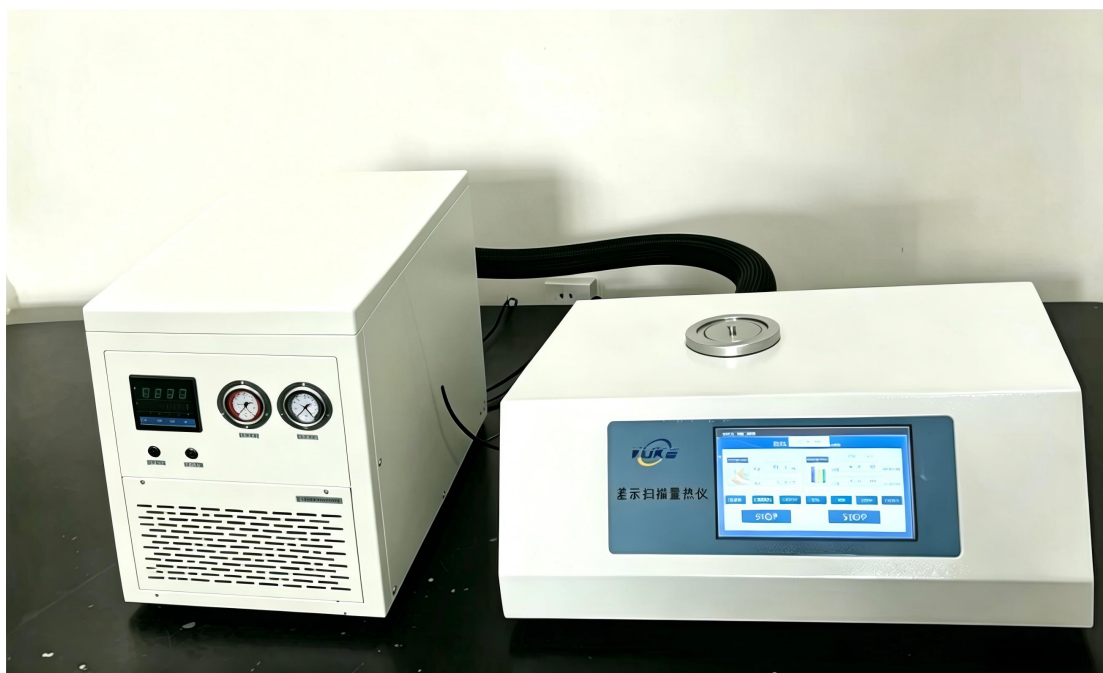


Name: Differential Scanning Calorimeter  
Model: YK-DSC-500SL



### Technical characteristics

1. Industrial-grade widescreen touch structure, with rich display information, including set temperature, sample temperature, oxygen flow rate, nitrogen flow rate, differential thermal signal and various switch states.
- 2, USB communication interface, strong versatility, reliable signal without interruption, support self-recovery connection function.
3. The furnace body is compact in structure, and the heating and cooling rate can be adjusted at will, which can achieve the functions of linear cooling and linear heating.
4. The installation process is improved, and all of them are mechanically fixed, which completely avoids the pollution of colloid in the furnace body to the differential thermal signal.
5. Double temperature probes ensure high repeatability of sample temperature measurement.
6. The digital gas mass flowmeter automatically switches two gas flows, with fast switching speed and short stabilization time.

- 7, Standard samples, convenient for customers to correct the temperature coefficient.
8. Software adapts to computer screens with different resolutions; Support notebook, desktop, WIN10, WIN11 and other operating systems.
9. Support the user's self-programming program to realize full automation of measurement steps. The software provides dozens of instructions, and users can flexibly combine the instructions according to their own measurement steps and save them. Complex operations are simplified to one-click operations.
- 10, The instrument comes with automatic calibration function.
- 11, Using mechanical refrigeration method, simple installation and reliable performance.

### **Technical parameter**

1. DSC range: 0 ~ 200mW
2. Temperature range: -85 ~ 500°C
3. Heating rate: 0.1 ~ 50°C/min
4. Cooling rate: 1 ~ 5°C/min (< 30°C), 1 ~ 10°C/min (≥ 30°C).
5. Temperature resolution: 0.01°C
6. Temperature accuracy: 0.1°C
7. Temperature repeatability: 0.1°C
8. DSC accuracy: 2%
9. DSC resolution: 0.001mW
10. DSC resolution: 0.001mW
11. Temperature control mode: heating, constant temperature, cooling and circulating temperature control (full program automatic control).
12. Curve scanning: heating scanning and cooling scanning.

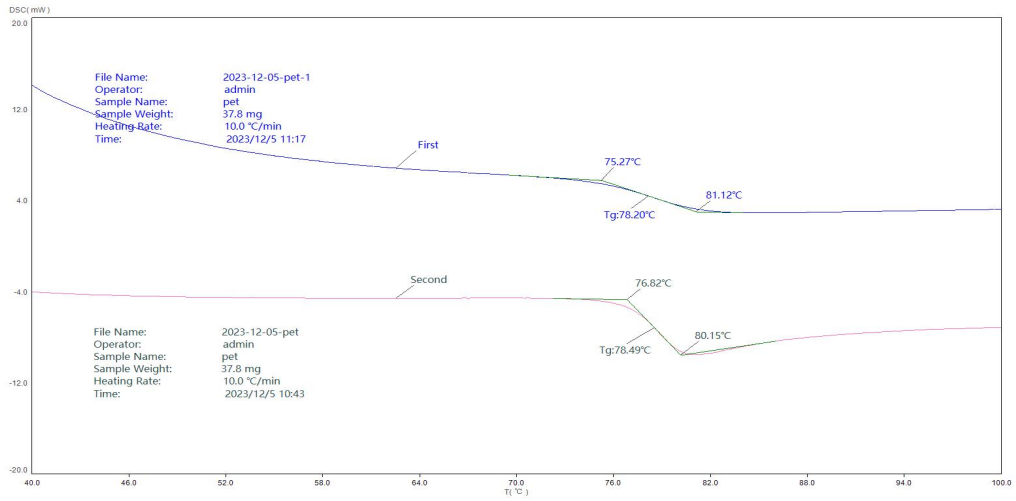
13. Atmosphere control: The gas mass flowmeter automatically switches between two gases.
14. Refrigeration mode: mechanical refrigeration.
15. Display mode: 24bit color, 7-inch LED touch screen display.
16. Data interface: USB standard interface with corresponding operating software.
17. Parameter standard: equipped with standard calibrator, with one-button calibration function, users can calibrate the temperature by themselves.
18. Working power supply: AC220V 50Hz/60Hz.

### **Scope of application:**

DSC can measure the relationship between temperature and heat flow related to the internal thermal transition of materials, and can analyze the characteristics of materials, such as glass transition temperature, melting point, cold crystallization, product stability, crosslinking, oxidation induction period and so on. Meet the requirements of GB/T19466-2004 and ISO/CD11357-1999 standards.

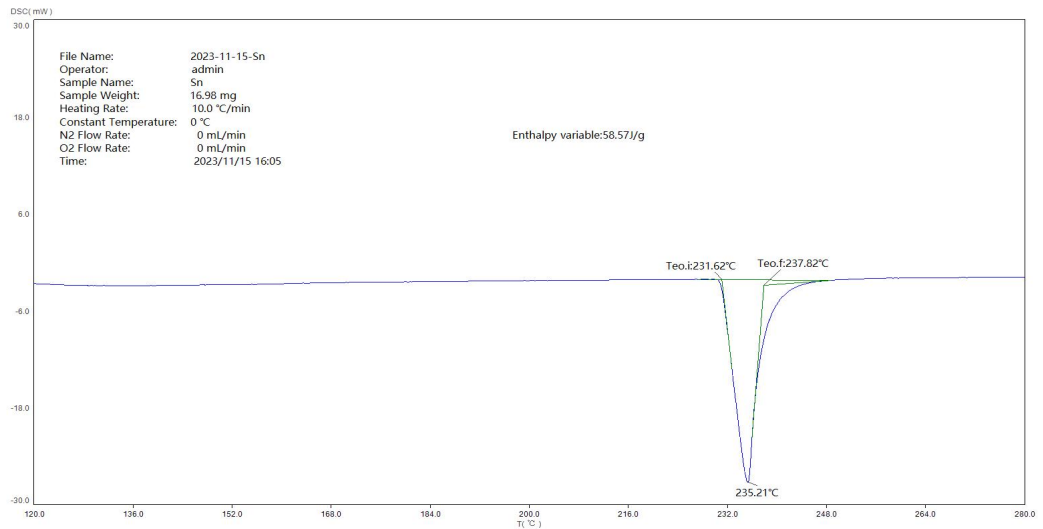
# DSC glass transition temperature curve

DSC Curve



# DSC melting temperature curve

DSC Curve



### List of accessories of DSC-500SL instrument

No.	Items	Quantity
1	DSC-500SL heating furnace and main cabinet	1 set
2	Working program CD of DSC-500SL differential scanning calorimeter	1 piece
3	DSC-500SJ Mechanical Refrigerator	1 set
4	feed cable	1 root
5	Signal cable (USB)	1 root
6	Glass tube fuse 5A)	4.
7	tweezers	1 branch
8	Sample spoon	1 branch
9	certificate	1 copy
10	Pressure reducing valve connector	2
11	Ventilation joint	4.
12	Aluminum crucible ( $\varphi \Phi 6.7 \times 3$ mm)	400
13	Standard samples (In, Sn, Zn)	0.5g each
14	Instructions for differential scanning calorimeter	1 copy
15	Ventilation plastic pipe (blue)	3 meters
16	Ventilation plastic pipe (orange)	3 meters
17	Software encryption dog	1
18	Stainless Steel Lid	1
19	Aluminum Alloy Lid	1

#### After-sales description

1. The product is guaranteed for one year from the factory date (except for man-made failures).
2. The manufacturer provides users with lifelong technical services for products.
3. Software: free conversion between Chinese and English, free upgrade for life.
4. After-sales telephone number: +86 16601757347