Shanghai Trueview Scientific Instrument Co., LTD
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1、Carbon Residue Tester(Micromethod)

Summary

This instrument is designed and made as per ASTM D4530 and GB/T17144-1997 Standard Test Method for Carbon Residue of Petroleum Products-Micromethod. It is suitable to determine the the amount of carbon residue of petroleum products.

I. Main technical features

1. This instrument adopts all-in-one structure. It consists of two parts: electrical control chamber and high temperature heating furnace. The design is simple and reasonable.
2. It adopts single chip machine system. The instrument controls the whole procedures automatically according to program preset.
3. The screen adopts all English interface. Operator can do determination by prompts on the screen even no need to read the operation manual. Easy to operate.
4. It controls the flow rate of nitrogen, temperature heating rate and preset temperature automatically. Easy to adjust the flow rate. The heating rate is accurate and temperature control is stable.
5. It collects test data and calculates results automatically. It can print and save the data according to customer's requirements.
6. The measurement range of this instrument is 0.10%（m/m）～30.0%（m/m）. The test result is equivalent to Conradson method if the carbon residue is higher than 0.10%（m/m）.
7. The instrument can also be used to determine the petroleum products composed of distillate oils which carbon residue is lower than 0.10%（m/m）. But the specimen shall be sampling to 10%（V/V）distillation residue according to GB/T6536 firstly.
8. It equips a electric balance to achieve the automation of sample weighing and data input.

II. Main technical specifications

1. Power supply： AC（220±10%）V, 50Hz
2. Maximum power consumption： 1600W
3. Temperature of coke chamber： 500℃

4. Temperature control accuracy： ±2℃

5. Heating power： 1500W

6. Ambient temperature： 5℃～35℃

7. Relative humidity： ≤85%

8. Dimension： 520mm×360mm×525mm

I,TR-TC-17144 Carbon Residue Tester(Micromethod) Accessories and Documents List

No.	Name	Unit	Qty	Memo
1	TR-TC-17144 Carbon Residue Tester(Micromethod)	Set	1	
2	12 holes tube holder	Piece	1	
3	Big sample tube（Diameter 12×70mm）	Piece	24	
4	Small sample tube（Diameter 12×35mm）	Piece	24	
5	Test tube rack lift hook	Piece	1	
6	Air inlet pipe（ϕ6 PU pipe, 2m）	Set	1	Used to connect the steel cylinder and main machine
7	Exhaust pipe（ϕ10PU pipe, 2m）	Piece	1	Used to remove exhaust gas
8	The top cover of raw coke box	Piece	1	Remove packaging from the equipment
9	Serial Line	Piece	1	Electric balance and instrument communication line
10	Fuse 15A（Φ6×30）	Piece	2	
11	Electric balance(Weighing range 110g, accuracy grade I, readability 0.1mg)	Set	1	Including tecnical manual etc.
12	Operation manual	Piece	1	
13	Quality certificate	Piece	1	
14	Product warranty card	Piece	1	

II,TR-TC-17144 Carbon Residue Tester(Micromethod)'s Reagent and Auxiliary Equipments

No.	Name	Specifiction	Quantity	Memo
1	Nitrogen	Purity 98.5%	1 bottle	With reducing valve

Notes：

1、The reagent and equipments for installing the instrument are supplied by end-users themselves.

2、The usage,management and saving of poisonous and harmful reagent,pls operate according to the relative principle.

3、PLS read the operation manual and industry standard before using the instrument.

2、Carbon Residue Tester(Electric Furnace Method)

Summary

The instrument is designed and made as per industrial standard of People's Republic of China SH/T 0170 and ASTM D524 Test Method for Carbon Residue of Petroleum Products-electric furnace method. It is suitable to determine the carbon residue of lubricating oils, heavy liquid fuels and other petroleum products.

I. Main technical features

1. The instrument adopts desktop configuration. The heating furnace and controller are assembled to all-in-one machine. Small dimension and easy to use.
2. The max temperature of heating furnace can reach 520℃. It adopts digital temperature controller. The temperature control accuracy can reach ±5℃.
3. It can do four sample determinations concurrently. The test efficiency is high.

II. Main technical specifications

1. Power supply： AC（220±10%）V, 50Hz
2. Heating mode： Electric furnace
3. Heating power： 1150W（230W×5）in total
4. Temp. Control range： (0～520)℃
5. Temp. Control accuracy： ±5℃
6. Test furnace： One furnace with four holes
7. Ambient temperature： Room temperature～ 35℃
8. Relative humidity： ≤85%
9. Maximum power consumption： 1300W
10. Dimension： 350mm×360mm×365mm

3. Carbon Residue Tester（Conradson Method）

Summary

The instrument is designed and made as per national standard of People's Republic of China ASTM D189 and GB/T268 Standard Test Method for Carbon Residue of Petroleum Products by Conradson Method. It is used to determine the amount of carbon residue of petroleum products after evaporation and pyrolysis, so as to check coke forming property of petroleum products.It can also meet requirements of ASTM D189 Standard Test Method for Conradson Carbon Residue of Petroleum Products.

I. Main technical features

1. The design can totally meet requirements of standard GB/T 268.
2. Simple design. Accessories complete. The test can be done as loon as equip civil gas.

II. Main technical specifications

1. Porcelain crucible： About 30ml.
2. Inner iron crucible： About (75±5)ml.
3. Outer iron crucible： About(190±10)ml with cover.
4. Supporter： Height: (250±10)mm Bore diameter: Φ(130±5)mm
5. Flame shield： Diameter of upper port:Φ(90±2)mm
   Diameter of lower port:Φ(82±2)mm
6. Round iron cover： The height of underpart is (50～53)mm.
   The height of cone in the middle is (25±2)mm.
   There is a piece of iron wire as the fire bridge on the top.
   The height is (50±3)mm.It is regarded as the indicator of max height.
7. Blowtorch： It adopts gas torch .
8. Dimension： Φ130mm×400mm

Product Package: