

Carbonizable Substances In White Mineral Oil or Paraffin Wax

ASTM D565 - ASTM D612



- ⊕ **Stainless steel bath**
- ⊕ **Cooling coil**
- ⊕ **Bath drain**
- ⊕ **Easy to operate**
- ⊕ **Position for eight test tubes**

Item	Unit	TC16
P/N 230V/50-60Hz		00T0671
P/N 115V/60Hz		00T0861
Power	[kW]	1.5
Range	°C °F	Ambient .. 250 Ambient .. 482
Reading		°C or °F
Setting	[°]	0.1
Stability ±	[°C]	0.02
Heating	[kW]	1.4
Bath volume	[L]	16
Bath	[mm]	Maximum eight test tubes
Bath depth	[mm]	220
Length	[mm]	455
Width	[mm]	295
Height	[mm]	440
Materials	Used inside bath: stainless steel 304, brass	
CE	Conforms to CE regulation	

General

The ASTM D565 (mineral oil) and ASTM D612 (paraffin wax) test methods cover the determination whether the sample conforms to the standard quality required for pharmaceutical use as defined by the United States Pharmacopeia, the National Formulary, or the Food and Drug Administration.

For the test, either mineral oil or melted wax is treated with concentrated sulfuric acid (H_2SO_4) and heated under prescribed conditions. The resulting colour is compared with a reference standard to determine whether it passes or fails the test.

Construction

A TC16 with temperature range from ambient +5°C to 250° is suitable for immersing test tubes. The levelling platform (P/N 07T0210) will keep the test tubes above the 10 mL line and is needed as an accessory. A special stainless steel cover (P/N 03T2314) with eight ø16 mm openings is needed to suspend the test tubes in the bath.

TC16 can be emptied via the standard installed drain on the backside of the apparatus.

Accuracy

The insulation of the bath and electronic design result in a very stable working temperature of $\pm 0.02^\circ C$. The set point can be set in steps of $0.1^\circ C$ in the range of $0^\circ C$ up to $250^\circ C$ ($-148..482^\circ F$). The accuracy on the display is displayed in $0.1^\circ C$. However the controller has an internal accuracy of $0.01^\circ C$.

Temperature readout

Standard available in °C, on request in °F.

Pump

When not used for ASTM D565 or D612 tests, the pump can be used to circulate the bath content to an external application.

Safety


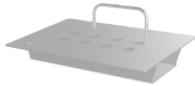
The bath conforms to CE regulation. It is further equipped with a mechanical resettable safety thermostat.


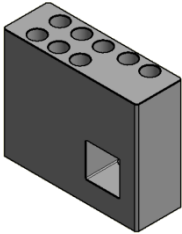

Necessary options and accessories

Please see the table on the next page.

Carbonizable Substances In White Mineral Oil

Options and accessories

Necessary options for TC16			
Part Number	Picture	Quantity	Description
07T0210		1	Levelling platform for TC16.
03T2314		1	Cover with eight Ø 16 mm openings for ASTM D565/D612 test tubes.

Accessories			
Part Number	Picture	Suggested quantity	Description
09T0230		8	Test tube for ASTM D565/D612. Stopper is included. Test tube is delivered with rolled edge.
31T0040		1	Colour comparator for ASTM D565/D612.
08T0001		1	Can (20 L) with silicon oil as bath medium for TC16.

D565