

Corrosiveness to Copper from Industrial Aromatic Hydrocarbons

ASTM D849



Stainless steel bath
Cooling coil
Bath drain
Easy to operate
Six positions
Delivered with six sets of glassware

Item	Unit	TC40
Apparatus D849 TC40 with glassware 230V/50-60Hz		00T2015
Apparatus D849 TC40 with glassware 115V/60Hz		00T2016
Power	[kW]	230V: 3.0 / 115V: 1.8
Range	°C °F	Ambient .. 250 Ambient ..482
Reading		°C or °F
Setting	[°]	0.1
Stability	[°C]	0.02
Heating	[kW]	230V: 2.8 / 115V: 1.75
Bath volume	[L]	40
Bath openings	[mm]	6
Bath depth	[mm]	220
Length	[mm]	480
Width	[mm]	295
Height	[mm]	480
Materials	Used inside bath: stainless steel 304, brass	
CE	Conforms to CE regulation	

General

The ASTM D849 test method covers the detection of the corrosiveness to copper from aromatic hydrocarbons. The apparatus consists of a six position TC40 circulator bath and it is standard delivered with six sets of glassware (250 mL flask and condenser). The cover of the bath has six openings, each with a lid and stand-rods with clamps to hold the glassware in the same position. The temperature range is from ambient +5°C to 250°C. All accessories for this test method are supplied by Tamson, please see table 2.

Accuracy

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

Temperature readout

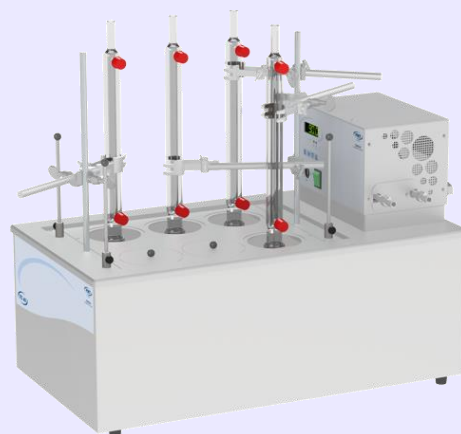
Standard available in $^\circ\text{C}$, on request in $^\circ\text{F}$.

Pump

When not used for copper corrosion 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. Optional is a low liquid float (P/N 07T0080).



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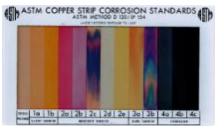

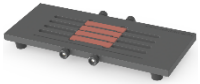







Apparatus for ASTM D849

Table 1: Apparatus ASTM D849 P/N 00T2015 or P/N 00T2016 consists of the following parts:

P/N	Picture	Quantity	Description
00T0681		1	TC40 circulator bath, 230V/50-60Hz.
00T0851			TC40 circulator bath, 115V/60Hz
07T0211		1	Levelling platform for TC40
03T2011		1	Top cover ASTM D849 with six openings
03T2012		6	Small lid for top cover (P/N 03T2011)
31T2011		6	Glass condenser for ASTM D849, 300 mm height with NS 29 connection
31T2012		6	Flask (250 mL) with flat bottom with NS 29 connection
24T0072		4	Double boss head cross with brass clamping screws
24T0080		2	Sleeve for rod
24T0073		6	Cooler clamp for stand-rod
24T0068		2	Stand-rod

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Accessories for ASTM D849

Table 2: Accessories for ASTM D849			
Item	Picture	Suggested quantity	Description
31T0003		1	ASTM copper strip corrosion test standard.
31T0007		30	Copper strip with hole (per one strip) 12.5 x 3.0 x 75 mm (W x thick x L) 99.9 % purity.
31T0000		1	Multistrip vise, holds up to four strips while polishing.
31T0005		1	Silicon carbide powder 105 µm (1kg).
09T0011		6	Flat viewing test tube.
08T0001		2	Bath fluid silicon oil 20..150°C 20 ltr.
25T0928BW		1	ASTM thermometer similar to 34C with blue filling (low-hazardous to ship). Temp. range +25°C-105°C:0.2°C. Supplied with works certificate.
25T2154		1	Thermometer holder, 425 x 10 mm.
31T0009.100		1	Sanding paper silicon carbide P240 (box of 100 pieces).
31T0320		1	Soft copper. 99.9% purity. 0.5 mm. Rol of 44 m.