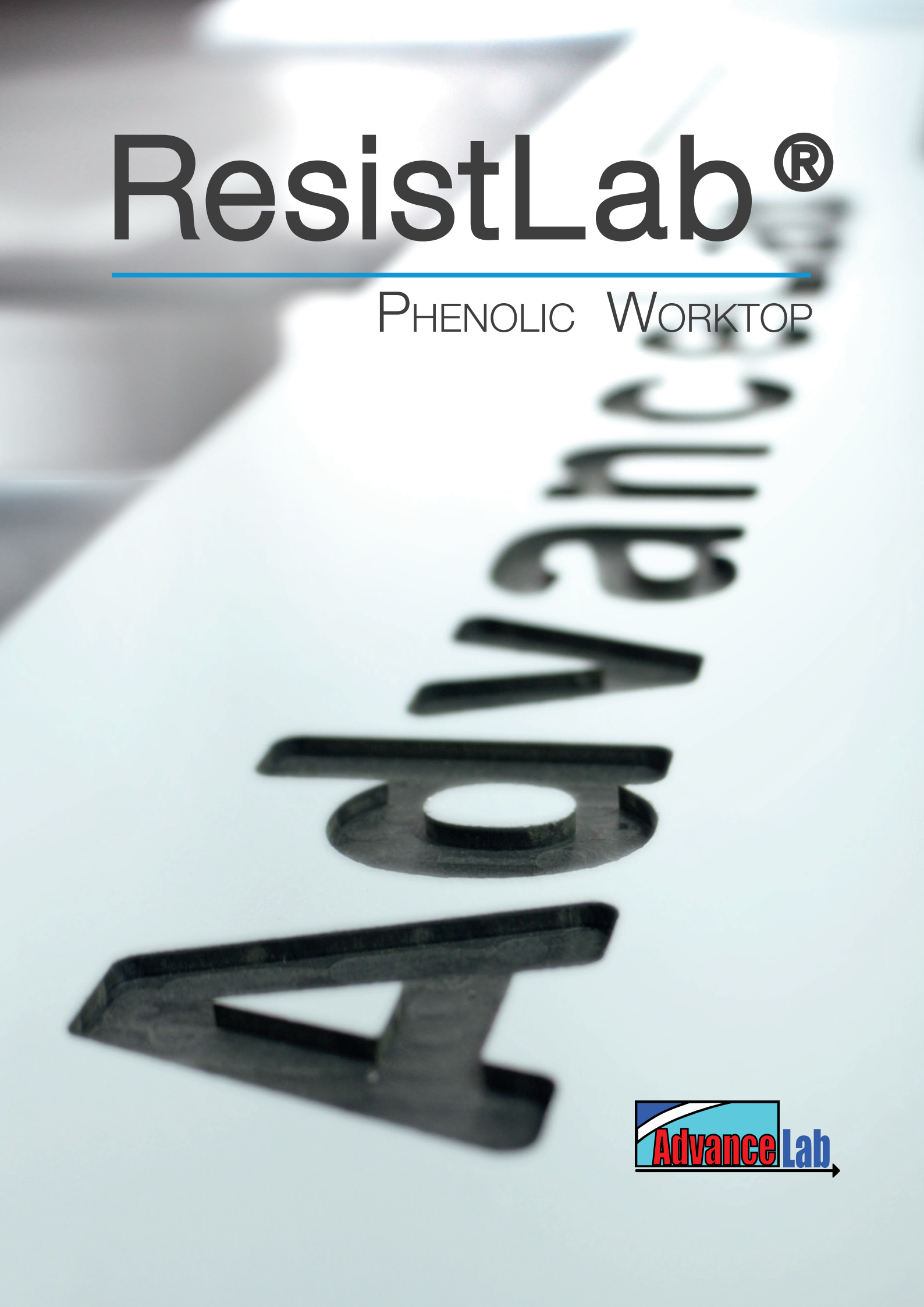
ResistLab®

Phenolic Worktop



AdvanceLab

Phenolic Worktop

Chemical Resistance grade Phenolic Worktop. Tested based on requirements of SEFA 8.1

RESISTLAB®

A regional builder & manufacturer specilizing in factory fit outs. ISO 9001 and ISO 18001 facilities. Phenolic worktops are the most commonly used tabletops in laboratories worl wide. Up to 95% of all labs were phenolic tops. It has chemical resistance, high heat tolerance and is a robust material that is economical.

Here at Advancelab. we have ResistLab® that we regularly use for all segments of industries included

- MNC
- Tertiary Institutuional
- Testing Laboratories
- QA / QC set ups
- Hospitals

Our work surfaces are molded with five thickness options:

- 10mm
- 13mm
- 16mm
- 18mm
- 20mm

a) When tested at the specified drop height, the diameter of indentation shall not exceed 10 mm.

b) L = in the longitudinal (or machine) direction of the fibrous sheet material (normally the direction of the longest dimension of the laminate).

c) T = in the cross-longitudinal (cross-machine) direction of the fibrous sheet material (at right angles to direction L).

d) Machine crosshead speed : 2 mm/min.

e) Specimen type 1A : Machine crosshead speed 5 mm/min.

PHYSICAL PROPERTIES

PSB Singapore

	Test Method	Property / Attribute	Unit (min. or max.)	Values
Resistance to Surface Wear	10	Wear Resistance	Revolutions (min.) Initial point Wear value	 150 350
Resistance to Impact by Large Diameter Ball	21	Drop Height [a]	mm (min.) (t=nominal thickness) 2.0 ≤ t < 6.0 6.0 ≤ t	 1400 1800
Resistance to Scratching	25	Force	Rating (min.) Textured finishes	 3
Resistance to Dry Heat (180° C)	16	Appearance	Rating (min.) Textured finishes	 4
Resistance to Wet Heat (100° C)	EN12721	Appearance	Rating (min.) Textured finishes	 4
Resistance to Immersion in Boiling Water	12	Mass Increase	5 (max.) 2.0 mm ≤ t < 5.0 mm t ≥ 5.0mm	 5.0 2.0
		Thickness Increase	% (max.) (t=nominal thickness) 2.0 mm ≤ t < 5.0 mm t ≥ 5.0mm	 6.0 2.0
		Appearance	Rating (min.) Textured finished	 4
Dimensional Stability at Elevated Temperature	17	Cumulative Dimentional Change	% (max.) (t=nominal thickness) 2.0 mm ≤ t < 5.0 mm L [b] 2.0 mm ≤ t < 5.0 mm T [c] t ≥ 5.0 mm L t ≥ 5.0 mm T	 0.40 0.80 0.30 0.60
Resistance Staining	26	Appearance	Rating (min.) Groups 1&2 Group 3	 5 4
Lightfastness (Xenon Arc)	27	Contrast	Grey scale rating	4 to 5
Resistance to Water Vapour	14	Appearance	Rating (min.) Textured finishes	 4
Resistance to Cigarette Burns	30	Appearance	Rating (min.)	3
Resistance to Crazing	24	Appearance	Grade (min.)	4
Flexural Modulus	EN ISO 178 [d]	Stress	Mpa (min.)	9000
Flexural Strength	EN ISO 178 [d]	Stress	Mpa (min.)	80
Tensile Strength	EN ISO 527 [e]	Stress	Mpa (min.)	60
Density	EN ISO 1183	Density	kg/m³ (min.)	1350

Test Method:

The test was conducted by applying 2 or 3 drops of each reagent on the specimen surface. The reagent shall be at room temperature. Cover the reagent with a glass cover.

After a period of testing contact time under room temperature, the glass cover was removed. The reagent was rinsed off with water. Then the specimen surface was inspected and evaluated from various angles at a distance of 400 mm.

Rating:

No effect: No visible change of colour/corrosion/damage on surface
Excellent: Very slight change of colour, only visible at certain viewing angles
Good: Slightly change of colour on surface
Fair: Moderate change of colour on surface
Failure: Corrosion/ damage on surface

CHEMICAL PROPERTIES

PSB Singapore

24-hour Contact Time	%	No Effect	Excellent	Good	Fair	Failure
Acetone	-	✓				
Alcohol (Buthanol)	-	✓				
Ammonia	25	✓				
Ammonia Chloride	10	✓				
Ammonia Thiocyanate	41	✓				
Ammonia Sulphate	33	✓				
Amyl Acetate	-	✓				
Methyl Ethyl Ketone	100	✓				
Benzene	-	✓				
Dicholoromethane	99	✓				
n-Buthyl Acetate	-	✓				
Cadmium Sulphate Hyrate (Saturated)	-	✓				
Lead Acetate Trihydrate	42	✓				
Lead Nitrate (Saturated)	-	✓				
Trisodium Phosphate	10	✓				
Magnesium Chloride (Saturated)	-	✓				
Magnesium Sulphate Heptahydrate	43	✓				
Methanol	-	✓				
Potassium Bromate (Saturated)	-	✓				
Potassium Bromate	30	✓				
Potassium Chloride (Saturated)	-	✓				
Potassium Hydroxice	49		✓			
Sodium Acetate	24	✓				
Potassium Sulphate (Saturated)	-	✓				
Isopropanol	-		✓			
Sodium Acetate (Saturated)	-	✓				
Calcium Chloride Dihydrate	41	✓				
Chloral Hydrate	54	✓				
Calcium Hydroxide (Saturated)	-	✓				
Chloroform	99.5	✓				
Copper Sulphate	10	✓				
Ethanol	-	✓				
Diethyl Ether	-	✓				
Chloral Hydrate	54	✓				
Calcium Hydroxide (Saturated)	-	✓				
Chloroform	99.5	✓				
Copper Sulphate	10	✓				

24-hour Contact Time	%	No Effect	Excellent	Good	Fair	Failure
Ethanol	-	✓				
Diethyl Ether	-	✓				
Ethyl Acetate	-	✓				
Glycerine	-	✓				
Sodium Carbonate (Saturated)	-	✓				
Sodium Chloride (Saturated)	-	✓				
Sodium Nitrate (Saturated)	-	✓				
Sodium Soluble (Saturated)	-	✓				
Thymol (Saturated)	-	✓				
Toluene	99	✓				
Tetrachloromethylene	99	✓				
Xylene	-	✓				
Zinc Chloride (Saturated)	-	✓				
Zinc Sulphate Heptahydrate	33.66	✓				

30-mins Contact Time	%	No Effect	Excellent	Good	Fair	Failure
Hydrofluoric Acid	15		✓			
Sulfuric Acid	60			✓		
Nitric Acid	60		✓			
Acetic Acid	100	✓				
Boric Acid	-	✓				
Citric Acid	30	✓				
Oxalic Acid	-	✓				

15-mins Contact Time	%	No Effect	Excellent	Good	Fair	Failure
Aluminium Chloride (Saturated)	-	✓				
Hydrogen Peroxide	30	✓				
Methylene Blue (Saturated)	-	✓				
Potassium Dichromate	-	✓				
Potassium Iodide (Saturated)	-	✓				
Potassium Permanganated (Saturated)	-	✓				
Sodium Thiosulphate (Saturated)	-	✓				
Potassium Nitrate (Saturated)	-	✓				
Sodium Sulphite (Saturated)	-	✓				
Sodium Hyroxide	49	✓				
Silver Nitrate	5			✓		

FABRICATION

A US imported CNC Router gives us a wide way of ability to cut your phenolic to size. A high cut speed of 1,400 IPM and rapid traverse of 2,500 means no time is wasted when the 3000 Series cuts and moves. And you still get consistently high accuracy with each cut because the 3000 Series CNC router comes with a repeatability of 1/1000th of an inch!

We are able to fabricate and cut to size for any type of job. We can produce cutting patterns to minimise wastage.

TOP ORDERING INFORMATION

1) Colour Guide

P01034	P01597	P60200	P11000	P60300
Warm White	Warm Grey	Cold Grey	Light Blue	Black

2a) Standard Length

1200mm
1500mm
1800mm
3670mm

2b) Standard Width

600mm
750mm
900mm
1530mm
1850mm

2c) Standard Thickness

13mm
16mm
18mm
20mm

3) Edge and Profile

A

Chamfered

B

Square

C

Marine Edge

Bench Top Order No.

ADPT-P11000-1200/600-13 B

Custom code for ResistLab® Phenolic worktop	Colour code refer to table 1:	Standard length sizes; refer to table 2a:	Standard width sizes; refer to table 2b:	Standard Thickness; refer to table 2c:	Standard finishing (edge); refer table 3:

* Example of the order above:

Advancelab ResistLab Phenolic Worktop - Light Blue colour - 1200mm Length / 600mm Width - 13mm thickness , Square finishing

SINKS

4a) Standard Length

1200mm
1500mm
1800mm

4b) Standard Width

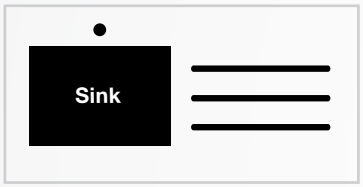
750mm

4c) Standard Thickness

13mm
16mm
18mm
20mm

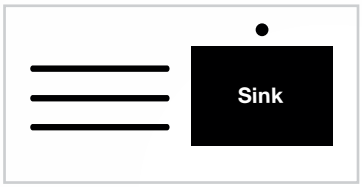
5) Position

L



M

R



Forged Sink Order No.

ADPS-1500/750-18 M

Custom code for Phenolic forged sink	Standard length sizes; refer to table 4a:	Standard width sizes; refer to table 4b:	Standard Thickness; refer to table 4c:	Standard finishing (edge); refer table 5:

* Example of the order above:

Advancelab ResistLab Phenolic Worktop - 1500mm Length / 750mm Width - 18mm thickness , Middle sink position

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