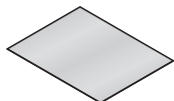


# MG CHEMICALS Copper Clad Boards & Prototyping Products

RoHS Compliant  This product is RoHS compliant.

## COPPER CLAD BOARDS

We offer 1/16, 1/32 and 1/64 FR4 laminate with 1 ounce copper per square foot. This flame retardant laminate is translucent in color and made of continuous woven glass cloth impregnated with epoxy resin. The copper on 1 ounce board is 1.34 mil thick (0.0341mm). The boards are made of FR4 which is a flame retardant version of G-10 material. Developed specifically for the circuit processing industries requirements. Complies with Mil-S-13949H-GFK. Provides ultraviolet blocking and fluorescence when using automated optical inspection (AOI). UL #E37002A



MOUSER STOCK NO.		PCB Thickness	Dimension (in.)	Copper	Price Each	
Mfr.	Mfr. Part No.				1	5
<b>Single Sided</b>						
590-503		1/16	3" x 5"	1oz.	3.30	3.13
590-506		1/16"	4" x 6"	1oz.	4.06	3.86
590-509		1/16"	6" x 6"	1oz.	5.03	4.78
590-512		1/16"	6" x 9"	1oz.	7.13	6.77
590-515		1/16"	8" x 10"	1oz.	10.94	10.39
590-521		1/16"	12" x 12"	1oz.	14.29	13.57
590-586		1/32"	4" x 6"	1oz.	4.24	4.03
590-588		1/32"	6" x 9"	1oz.	7.46	7.08
590-590		1/32"	12" x 12"	1oz.	14.65	13.91
590-597		1/64"	6" x 9"	1oz.	7.46	7.08
<b>Double Sided</b>						
590-550		1/16"	6" x 6"	1oz.	5.70	5.42
590-555		1/16"	12" x 12"	1oz.	16.24	15.43
590-587		1/32"	4" x 6"	1oz.	4.65	4.41
590-589		1/32"	6" x 9"	1oz.	7.76	7.38
590-591		1/32"	12" x 12"	1oz.	16.75	15.91
590-598		1/64"	6" x 9"	1oz.	7.76	7.38

## DOUBLE SIDED COPPER CLAD BOARDS FOR LEAD FREE HIGH TEMPERATURE APPLICATIONS

Phenolic Glass Laminate with 1 ounce copper per square foot. Developed specifically for high temperature lead free applications.

For quantities of 10 and up, call for quote.

MOUSER STOCK NO.		PCB Thickness	Dimension (in.)	Copper	Price Each	
Mfr.	Mfr. Part No.				1	5
590-530		1/16"	3" x 5"	1oz.	3.67	3.49
590-532		1/16"	6" x 6"	1oz.	6.25	5.94
590-533		1/16"	4" x 6"	1oz.	8.46	8.04

## LEAD FREE SUPERWICK

Engineered specifically for high temperature, lead-free solders. Can also be used with tin/lead solders. Transfers heat to the solder joint more quickly and efficiently than conventional desoldering brands. Non-corrosive ultra high purity, no-clean flux leaves no ionic contamination on circuit boards.



Packaged in ESD-safe static dissipative bobbins. RoHS compliant.

For quantities of 10 and up, call for quote.

MOUSER STOCK NO.		Width	Length	Price Each	
Mfr.	Mfr. Part No.			1	5
590-424-LF		.050"	5 Foot	3.16	3.00
590-425-LF		.075"	5 Foot	3.34	3.17
590-426-LF		.100"	5 Foot	3.80	3.61

## FIBER OPTIC SWABS

These swabs are designed to clean tight fit areas on fiber optic connectors. Comes in two convenient tip sizes to fit all types of connectors. Absorbent tip also great for use solvents. Can be used with safety wash, Isopropyl Alcohol and Fiber Optic Cleaner.



For quantities of 10 and up, call for quote.

MOUSER STOCK NO.		Description	Price Each	
Mfr.	Mfr. Part No.		1	5
590-815-50		(0.06") 1.4mm tip size (50 pack)	25.17	23.26
590-816-50		(0.10") 2.5mm tip size (50 pack)	25.17	23.26

## SELF SATURATING ALCOHOL SWABS

Swab combines solvent and applicator in one convenient unit. Simply squeeze the handle to break the patented seal and allow liquid to flow to the urethane foam head. Comes filled with 70% isopropyl alcohol and 30% deionized water.

### Features:

- Urethane foam tip
- 70/30 Isopropyl Alcohol/Deionized Water
- Non-abrasive
- Safe on plastics
- Complies with California Air Resource Board VOC regulations for electronics cleaners



For quantities of 10 and up, call for quote.

MOUSER STOCK NO.		Description	Price Each	
Mfr.	Mfr. Part No.		1	5
590-8241S-5		Self Saturating Alcohol Swabs (5 Pack)	4.94	4.70
590-8241S-25		Self Saturating Alcohol Swabs (25 Pack)	19.95	18.95

## CHAMOIS SWABS

Lint free, synthetic suede bonded to a bendable handle allowing access to hard to reach areas. Great for cleaning rotary audio, video and computer tape backup heads. Available single headed or double headed for economy.

For quantities of 10 and up, call for quote.

MOUSER STOCK NO.		Description	Price Each	
Mfr.	Mfr. Part No.		1	5
590-810-15		Single head (15 pack)	8.43	8.04
590-810-50		Single head (15 pack)	23.90	22.78
590-810-500		Single head (15 pack)	217.91	207.68
590-810D-15		Double head (15 pack)	9.43	8.99
590-810D-50		Double head (50 pack)	27.95	26.55
590-810D-500		Double head (500 pack)	257.03	244.95

## FOAM OVER COTTON SWABS

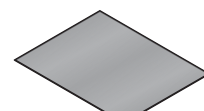
Shred resistant, 100% urethane foam heads with 100 PPI porosity over extra absorbent U.S.B pharmaceutical grade purified cotton. Bonded securely to a 6" birch staff. Compatible with most solvents.

For quantities of 10 and up, call for quote.

MOUSER STOCK NO.		Description	Price Each	
Mfr.	Mfr. Part No.		1	5
590-812-10		10 pack	5.75	5.47
590-812-50		50 pack	16.95	16.11
590-812-250		250 pack	75.00	71.25
590-812-1000		1000 pack	262.61	248.51

## POSITIVE PRESENSITIZED BOARDS

Our sensitized boards provide high resolution and excellent fine line control. They are ideal for prototypes, small production runs, and student training. White protective peel-off liner is attached to protect board from incident light and scratching. We also offer a large thin (12 x 18 x 1/32 inch) cat#675 paper phenolic sensitized board (Easy Cutting!), perfect for cutting into smaller boards with no special equipment. Perfect for the classroom.

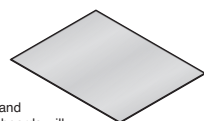


For quantities of 10 and up, call for quote.

MOUSER STOCK NO.		PCB Thickness	Dimension (in.)	Copper	Price Each	
Mfr.	Mfr. Part No.				1	5
<b>Single Sided</b>						
590-603		1/16	3" x 5"	1oz.	6.95	6.60
590-606		1/16"	4" x 6"	1oz.	7.45	7.08
590-609		1/16"	6" x 6"	1oz.	8.49	8.21
590-612		1/16"	6" x 9"	1oz.	12.46	11.82
590-687		1/32"	4" x 6"	1oz.	7.60	7.22
590-689		1/32"	6" x 9"	1oz.	12.45	11.82
<b>Paper Phenolic Single Sided</b>						
590-675		1/32"	12" x 18"	1oz.	26.95	25.60
<b>Double Sided</b>						
590-650		1/16"	6" x 6"	1oz.	11.65	11.06
590-660		1/16"	6" x 9"	1oz.	15.95	15.15
590-690		1/32"	6" x 9"	1oz.	15.95	15.15
590-698		1/64"	6" x 9"	1oz.	15.94	15.15

## 1/2 OZ. COPPER CLAD BOARDS

We offer 1/16", FR4 laminate with 1/2 ounce copper per square foot. This flame retardant laminate is translucent in color and made of continuous woven glass cloth impregnated with epoxy resin. The boards are made of FR4 which is a flame retardant version of G-10 material. Developed specifically for the circuit processing industries requirements. Provides ultraviolet blocking and fluorescence when using automated optical inspection (AOI). 1/2 ounce copper boards will significantly reduce required etching time.



MOUSER STOCK NO.		PCB Thickness	Dimension (in.)	Copper	Price Each	
Mfr.	Mfr. Part No.				1	5
590-551		1/16"	6" x 6"	1/2 oz.	5.70	5.42

## SILVER CONDUCTIVE GREASE

This Silver Grease provides maximum electrical and thermal conductivity between sliding surfaces, while providing protection from moisture and corrosion. Typical applications include lubrication of substation switches or circuit breakers, heat dissipation from transformers, or static grounding on seals or O-rings.



For quantities of 10 and up, call for quote.

MOUSER STOCK NO.		Description	Price Each	
Mfr.	Mfr. Part No.		1	5
590-8463-7G		Silver Conductive Grease	15.95	15.15

## THREADLOCKERS

### Features:

- One drop prevents loosening and ensures a secure hold
- Pick the strength you need, stop corrosion, seal threads, improve torque control, reduce galling, and minimize inventories
- Only cures in the absence of air (anaerobic) making cleanup of excess Threadlocker easy
- Threadlockers can drive reliability up and costs down
- Threadlockers provide lubricity to achieve controlled torque during assembly, and in operation, they hold critical clamp load pressures under the most severe environments



For quantities of 5 and up, call for quote.

MOUSER STOCK NO.		Description	Size	Price Each
Mfr.	Mfr. Part No.			
590-8701-10ML		Low Strength for fasteners up to 1/4"	10mL (0.2 oz)	8.24
590-8701-50ML		Low Strength for fasteners up to 1/4"	50mL (2 oz)	29.95
590-8702-10ML		Medium Strength for fasteners up to 3/4"	10mL (0.2 oz)	8.24
590-8703-10ML		High strength, permanent for fasteners up to 1"	10mL (0.2 oz)	8.24
590-8703-50ML		High strength, permanent for fasteners up to 1"	50mL (2 oz)	29.99
590-8704-10ML		High strength, wicking for fasteners up to 1"	10mL (0.2 oz)	8.24
590-8704-50ML		High strength, wicking for fasteners up to 1"	50mL (2 oz)	29.95

## NEGATIVE DEVELOPER 4170

Used for developing boards laminated with MG Chemicals Negative Dry Film Resist. For removing exposed resist during the positive photofabrication process.



### Specifications:

- Clear, colorless solution
- Physical state—liquid
- Completely soluble
- PH—13.10
- Non-flammable
- Odorless

For quantities of 10 and up, call for quote.

MOUSER STOCK NO.		Description	Price Each	
Mfr.	Mfr. Part No.		1	5
590-4170-500ML		500ml (16 oz.) bottle	9.95	9.65

## DRY FILM RESIST - NEGATIVE 416DFR

Create professional looking boards quickly and easily. This negative film is a photosensitizing material that can be applied onto plain copper boards by using a standard laminator. Once applied, you are ready for exposing, developing, and etching.



### Specifications:

- Unexposed color—green
- Exposed color—blue
- Normal thickness—1.5-2.0 mil
- High resolution
- Scum-free at development
- Excellent adhesion

MOUSER STOCK NO.		Description	Price Each	
Mfr.	Mfr. Part No.		1	5
590-416DFR-5		Dry film, 5' x 12 inches	17.95	17.34