

**Réf. AA15, AAC16, AAC20, AB15, ABC16, ABC20, ABD16, ABD20, AEB16, AEB20****Epoxy base 16/10th - 35 µ**

- Positive resin, blue coloured bleue, without marbling
- Micro definition
- Resin thickness: 2,5 µ.
- Adhesive anti UV protection.
- Guarantee 5 years.
- Individual plastic packaging
- Excellent quality
- Resists to every acids
- Long life storage

| Size in mm | 1 side       | 2 sides      |
|------------|--------------|--------------|
| 150 x 200  | <b>AA 15</b> | <b>AB 15</b> |

**Epoxy base 4/10th - 35 µ**

| Size in mm | 1 side        | 2 sides       |
|------------|---------------|---------------|
| 100 x 160  | <b>AAC 16</b> | <b>ABC 16</b> |
| 200 x 300  | <b>AAC 20</b> | <b>ABC 20</b> |

**Epoxy base 8/10th - 35 µ**

- high qualified stratified
- 8 glass tissue layers
- Standard MIL 13949 F for FR4
- UL 94 Vo

Exists in 2 and 4/10th, upon request.

| size in mm | 1 side        | 2 sides       |
|------------|---------------|---------------|
| 100 x 160  | <b>ADB 16</b> | <b>AEB 16</b> |
| 200 x 300  | <b>ADB 20</b> | <b>AEB 20</b> |

**Réf. AG 611, AG621 , AG631, AJP20****Tinned copper clad pads**

Drilled at 2,54 mm pitch.

Ø -> drilling 1 mm

Square pads 2 mm each side. Gap of 0,54 mm on the whole surface. Connector DIN 41612.

| Size in mm | Item Code     |
|------------|---------------|
| 100 x 160  | <b>AG 611</b> |

**Double sided epoxy, thickness 16/10<sup>th</sup>****Tinned copper clad pads**

Drilled at 2,54 mm pitch.

Ø -> drilling 1 mm

Square pads 2 mm on sides. Gap of 0.54 mm on the whole surface. 2.54 mm pitch plug-in connector.

| Size in mm | Item Code     |
|------------|---------------|
| 100 x 160  | <b>AG 621</b> |

**Tinned copper clad pads**

Drilled at 2,54 mm pitch.

Ø -> drilling 1 mm

Square pads 2 mm on sides. Gap of 0.54 mm on the whole surface. Connector DIN 41612.

| Size in mm | Item Code     |
|------------|---------------|
| 100 x 160  | <b>AG 631</b> |

**Single sided bakelite 35 µ, thickness 15/10th tinned copper clad strips or pads**

Drilled at 2,54 mm pitch.

Ø -> drilling 1 mm.

Gap of 0,54 mm on the whole surface. Width of tracks 2 mm over the whole surface.

| Size in mm | Item code<br>Strips | Item code<br>Pads |
|------------|---------------------|-------------------|
| 100 x 200  | <b>AJB 20</b>       | <b>AJP 20</b>     |

**Réf. DU80, DU85****Carbide drill bits**

- Monopiece. Queue reinforced 3,17
- In stock from 0,4 mm to 3,17 mm
- Minimum drilling speed 20 000 tr/min
- Most little is the diameter, higher will be the speed
- Descent speed from 1,6 to 4 m/min

| Ø (mm) | Item Code | Ø (mm) | Item Code |
|--------|-----------|--------|-----------|
| 0,6    | DU 66     | 2,0    | DU 80     |
| 1,1    | DU 71     | 2,5    | DU 85     |

**Réf. DUFD1****Carbide milling bit**

- Monopiece carbide tool
- Queue 3,17 mm - front face

| Ø (mm) | Cote C in mm | Item Code |
|--------|--------------|-----------|
| 2,0    | 8,0          | DUFD 1    |

**Réf. EP116****Drilling plywood**

| Basic configuration    | Process  | Item Code | Qty |
|------------------------|----------|-----------|-----|
| Drilling boards, by 10 | Drilling | EP116     | 1   |

**Réf. CIF859****Desoldering station - HANDY 859****Key features for HANDY 859:**

- Ergonomic desoldering gun
- Build-in vacuum pump, with strong suction
- Entirely ESD

New auto desoldering station. The HANDY 859 station has a very light and easy handle ergonomic desoldering gun for easy work.

A closed circuit temperature sensor ensures a regular and accurate heating. The station is entirely ESD. It is also autonomous thanks to built-in vacuum pump.

The station is delivered complete with iron stand and cleaning kit.

Many nozzles are available:



| Specification | Φ A (mm) | Φ B(mm) |
|---------------|----------|---------|
| A1002         | Φ 0.8    | 2.3     |
| A1003         | Φ 1.0    | 2.5     |
| A1006         | Φ 1.2    | 2.8     |
| A1007         | Φ 1.5    | 3.2     |

| Description | Item Code |
|-------------|-----------|
| HANDY 859   | CIF859    |

|                                 |                           |
|---------------------------------|---------------------------|
| Technical characteristics       | <b>HANDY 859</b>          |
| Desoldering temperature         | <b>280°C to 450°C</b>     |
| Outlet tension                  | <b>27 V AC</b>            |
| Desoldering gun power           | <b>60 W</b>               |
| Depressure power                | <b>680 mmHg</b>           |
| Desoldering extraction air flow | <b>15 l/min</b>           |
| Power totale                    | <b>130 W</b>              |
| Net weight                      | <b>6,7 Kg</b>             |
| Dimensions L x w x H            | <b>162 x 250 x 160 mm</b> |
| Electrical supply               | <b>230 V – 50/60Hz</b>    |

| Accessories for HANDY 859 | Item Code    |
|---------------------------|--------------|
| Nozzle Ø 0.8 mm           | <b>A1002</b> |
| Nozzle Ø 1.0 mm           | <b>A1003</b> |
| Nozzle Ø 1.2 mm           | <b>A1006</b> |
| Nozzle Ø 1.5 mm           | <b>A1007</b> |

**Réf. F42202****Solder flux for repair**

Packaging adapted to repair operations.

Frost flux is packaged in a syringe to have a very accurate deposit on the surface.

Each syringe is delivered with a manual plunger; it can be connected to a dispenser or due to the standard syringe shape.

| Description                                     | Item Code      |
|-------------------------------------------------|----------------|
| No clean frost flux with plunger, syringe 10 cc | <b>F42 202</b> |

**Réf. F42240****Lead free alloys**

| Description                        | Packaging     | Item Code      |
|------------------------------------|---------------|----------------|
| Alloys Sn96.5Ag3Cu0.5, 12% of flux | syringe 10 ml | <b>F42 240</b> |

**Réf. I43410, I43411, I43412****THE NOZZLES FOR FILTRATEC® UNITS**

| Nozzles for FILTRATEC® units               | Item Code      |
|--------------------------------------------|----------------|
| Aluminium nozzle Ø 50 mm, bevelled end 45° | <b>I43 410</b> |
| Black plastic nozzle Ø 32 mm               | <b>I43 411</b> |
| Black plastic nozzle Ø 50 mm               | <b>I43 412</b> |

**Réf. I43512**

Filter small hood dedicated to filter fumes, solvents, acids...

For a better view, this equipment has a transparent upper cover.

The small hood sits directly on the workbench surface. Strong iron manufacturing with an epoxy paint coating to avoid any corrosion risk.

An extraction pipe of diameter 75 mm allows easily connecting the cabinet to the filter units FILTRIX or FILTRATEC.

| Description             | Item Code      |
|-------------------------|----------------|
| Filter small hood SH 75 | <b>I43 512</b> |

| Technical characteristics       | Model SH 75               |
|---------------------------------|---------------------------|
| Internal dimensions (L x w x H) | <b>745 x 386 x 375 mm</b> |
| Transparent upper cover         | <b>Yes</b>                |
| Connecting pipe Ø 75 mm         | <b>Yes</b>                |
| External dimensions (L x w x H) | <b>750 x 400 x 380 mm</b> |
| Net weight                      | <b>11,10 Kg</b>           |

**Réf. I43510**

Range of 2 cabinets conceived to filter fumes, solvents, acids...

For a better view, the cabinet has transparent openings on each side and includes in-line a removable front glass screen.

The air curtain cabinet directly sits on a workbench surface. Strong iron manufacturing with an epoxy paint coating to avoid any corrosion risk.

An extraction pipe of diameter 75 mm allows easily connecting the cabinet to the filter units FILTRIX or FILTRATEC.

| Model                        | Item Code      |
|------------------------------|----------------|
| Air Curtain Cabinet CAB 8050 | <b>I43 510</b> |

| Technical Characteristics                                            | Model CAB 8050         |
|----------------------------------------------------------------------|------------------------|
| Internal dimensions (L x w x H) in mm                                | <b>795 x 450 x 460</b> |
| External dimensions <u>without</u> extraction pipe (L x w x H) in mm | <b>800 x 460 x 462</b> |
| External dimensions <u>with</u> extraction pipe (L x w x H) in mm    | <b>800 x 460 x 504</b> |
| Removable front glass screen                                         | <b>Yes</b>             |
| Connecting pipe Ø 75 mm                                              | <b>Yes</b>             |
| Net weight                                                           | <b>12 Kg</b>           |

**Réf. U800005, BB2PROD, U800006, BB4PROD****U800005****Set of product for exposure units including:**

- 10 autpositive Films Posireflex 210 x 297 mm
- 1 fixing developer, set for 1 l
- 20 Epoxy positive presensitised boards 16/10<sup>th</sup>, 35 µ, single sided, 200 x 300 mm
- 2 plastic trays 230 x 330 x 50 mm

1 CIF pen for direct etching, black

**BB2PROD****Set of products for etching machine model GRAV'CI2**

- 1 jerrycan of 5 L of ferric chloride for foam machine
- 1 neutralisation kit for ferric chloride
- 1 ferric chloride neutraliser, pot of 100 g
- 2 plastic trays, 220 x 330 x 50 mm
- 1 plastic plier for films and PCB
- 1 bag of 100 disposable gloves in polyethylene
- 1 CIF pen for direct etching, black

**U800006****Set of products for exposure units including:**

- 10 auto-positive films Posireflex 210 x 297 mm
- 1 fixing developer, for 1 l
- 10 epoxy presensitised positive 16/10<sup>th</sup>, 35 µ, 2F, 200 x 300 mm
- 1 CIF pen for direct etching, black
- 2 plastic trays 230 x 330 x 50 mm
- 1 Cutter with 1 blade

**BB4PROD****Set of products for etching machine model GRAV'CI2**

- 1 jerrycan of 5 L of boosted ferric chloride
- 1 neutralisation kit for ferric chloride
- 1 ferric chloride neutraliser, pot of 100 g
- 2 plastic trays, 220 x 330 x 50 mm
- 1 plastic plier for films and PCB
- 1 bag of 100 disposable gloves in polyethylene
- 1 CIF pen for direct etching, black

**Réf. V700043, V700044****V700043 / CIF852 :**

**Hot air temperature: 100 to 480°C**

**Temperature sensor : Yes**

**Heating element : Yes**

**Digital display of the temperature : Yes**

**Digital display of the hot air flow : Yes**

**Net weight of the iron : 0.12 kg**

**Pump flow : 1 to 23 L/mn**

**Total power : 500 W**

**Dimensions (L x W x H) : 188 x 244 x 126 mm**

**Net weight : 3.8 kg**

**Electrical supply : 230 V – 50/60Hz**

**Vacuum pen to grip the components: No**

**V700044 / CIF852 A++ :**

**Hot air temperature: 100 to 480°C**

**Temperature sensor : yes**

**Heating element : yes**

**Digital display of the temperature : yes**

**Digital display of the hot air flow : yes**

**Net weight of the iron : 0.12 kg**

**Pump flow : 1 to 23 L/mn**

**Total power : 500 W**

**Dimensions (L x W x H) : 188 x 244 x 127 mm**

**Net weight : 3.8 kg**

**Electrical supply : 230 V – 50/60Hz**

**Vacuum pen to grip the components: Yes**