

# ESPANCOLOR

LAB TEST PANELS

BROCHURE

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## OUR PRODUCTS:

METAL PANELS - ALUMINIUM PANELS - STEEL  
PANELS - SPECIAL PANELS - FARADAY & SAGGING  
PANELS - MULTIPANEL SHEET - SAMPLE PANEL /  
FILE - CURVE PANELS - NON METALLIC PANELS -  
DRY EXTRACT DISHES - LABORATORY CUPS - ...

**OVER 25 YEARS  
EXPERIENCE  
GUARANTEE OUR  
SUPPLIES**



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# GENERAL CHARACTERISTICS



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## FORMAT

All standard panels are rectangular with rounded corners for greater safety during handling and an Ø6 mm hole in the centre of the narrower edge.



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## APPEARANCE

The surface of the panels is smooth, flat, and shiny.

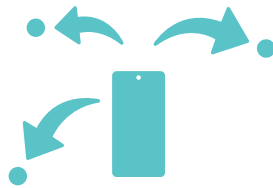


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## METALS

The panels are available in three types of metal finish, Tin Plate, Carbon Steel and Aluminium. Metals are under the specifications ISO 1514.

Espan Color S.L. minimises the variability of the metals and the finishes to provide an even, constant test surface.

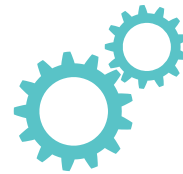


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## APPLICATIONS

All the test panels are designed for general testing of Paints, Varnishes, Inks, Glues, Adhesives, Resins, etc.

Hundreds of thousands of our panels are used every year for test purposes numerous in European laboratories. More than twenty five years' experience are our guarantee of reliability and quality.

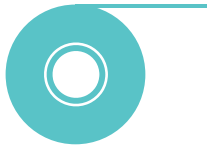


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## MANUFACTURE

All our panels are subject to stringent quality controls from reception of the raw materials, throughout the manufacturing and packaging process.

- Control of the alloy composition and finish of the metals.
- Automatic production lines.
- Control of the mechanical properties of the metals in accordance with ISO and ASTM standards.
- Panels based on the UNE-EN ISO 1514 standard.



## TYPE E / FINISH

The panels are supplied in their original form, which is exactly as they come off the metal rolling mill and, therefore, have not been subjected to any degreasing process.

Espan Color S.L. considers that each laboratory has its own requirements for degreasing or cleaning.

Points 3.3 and 3.4 of the ISO 1514 standard specify the systems for cleaning prior to application of any coating. We understand that these procedures should be performed immediately before use in order to avoid any oxidation.

**Packaging:** The metal panels are supplied in cardboard boxes.



## TYPE D / DEGREASING

We offer a range of ready-to-use degreased panels to minimise the time employed by laboratory staff in completing these tasks.

Our manufacturing process enables us to automatically clean the panels and eliminate any traces of grease from the surface with minimum manual handling.

The panels are handled using gloves, and then only by touching the edges, to minimise all types of marks (fingerprints, etc.)

**Packaging:** The degreased panels are packed in groups of 25 or 50 units, depending on their size or thickness, wrapped in rust inhibiting paper, and packed in cardboard boxes.

This system guarantees an extended storage time for this type of panel.



## SPECIAL PANELS

We can also satisfy the specific requirements of our customers by supplying panels in other sizes, alloys and metals:

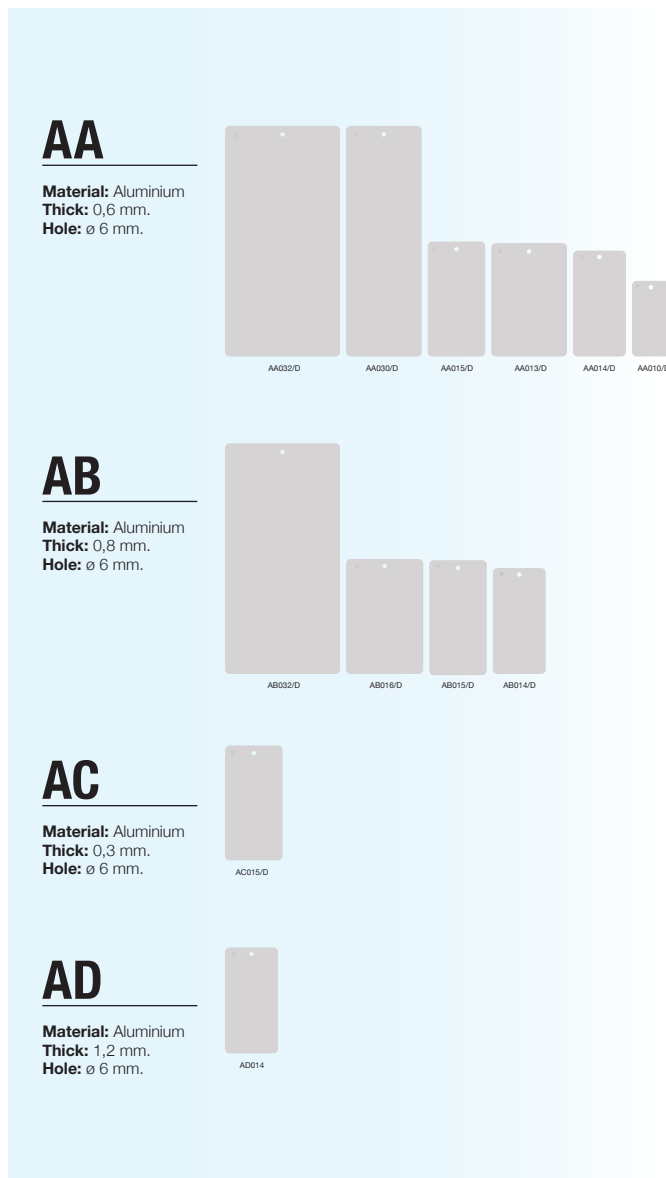
- Aluminium, brass, casting metals, copper, stainless steel, tin plate, etc.
- Aluminium adhesive test.
- Coupons labelled with serial number.
- Polished glass.
- Plastic.
- Fibro cement.
- Sand blasting, deep galvanized, polished, phosphated, zinc, chromated.

# ALUMINIUM PANELS

The aluminium panels are supplied in three different alloys. They all comply with the mechanical properties for impact and bend resistance (ASTM D 2794 - UNE 48 331) required for testing paints and varnishes.

These low weight, high corrosion-resistant panels may be more appropriate than carbon steel panels for shipping samples, corrosion testing, etc.

Panels AB014 and AD014 are manufactured under "QUALICOAT" specifications.



## AA ALUMINIUM Alloy: 3105 H14

CODE E/D	SIZE (mm)	BOX QUANTITY
AA032	305 x 152 x 0,6	100
AA032D		100
AA030	305 x 100 x 0,6	240
AA030D		240
AA015	152 x 76 x 0,6	160
AA015D		160
AA013	152 x 100 x 0,6	140*
AA013D		140*
AA014	140 x 70 x 0,6	160
AA014D		160
AA010	100 x 50 x 0,6	400
AA010D		400

## AB ALUMINIUM Alloy: 5005 H24

CODE E/D	SIZE (mm)	BOX QUANTITY
AB032	305 x 152 x 0,8	50*
AB032D		50*
AB016	152 x 102 x 0,8	100
AB016D		100
AB015	152 x 76 x 0,8	120
AB015D		100
AB014	140 x 70 x 0,8	120
AB014D		120

## AC ALUMINIUM Alloy: 1050 H18

CODE E/D	SIZE (mm)	BOX QUANTITY
AC015	152 x 76 x 0,3	300
AC015D		300

## AD ALUMINIUM Alloy: 6060/63

CODE	SIZE (mm)	BOX QUANTITY
AD014	140 x 70 x 1,2	100

\* Minimum order quantity.

# STEEL PANELS

These steel panels are manufactured from low carbon steel for moderate extrusion, cold rolling, according to the UNE 36086-75-I standard.

Other types of steel and finishes to suit your particular requirements can be supplied on request.

TYPE D degreased panels are supplied fully protected against rust. In the majority of cases they can be used directly. Cleaning should only be required in extremely demanding applications.

## SA COLD ROLLED STEEL F 6702 (UNE - 36086-1)

CODE E/D	SIZE (mm)	BOX QUANTITY
SA032 SA032D	305 x 152 x 0,8	50* 50*
SA030 SA030D	305 x 100 x 0,8	100 100
SA015 SA015D	152 x 76 x 0,8	120 100
SA013 SA013D	150 x 100 x 0,8	100* 100*
SA014 SA014D	140 x 70 x 0,8	120 100
SA016 SA016D	152 x 102 x 0,8	100* 100*

## SB COLD ROLLED STEEL F 6702 (UNE - 36086-1)

CODE E/D	SIZE (mm)	BOX QUANTITY
SB015 SB015D	152 x 76 x 0,5	200 200
SB014 SB014D	140 x 70 x 0,5	200 200

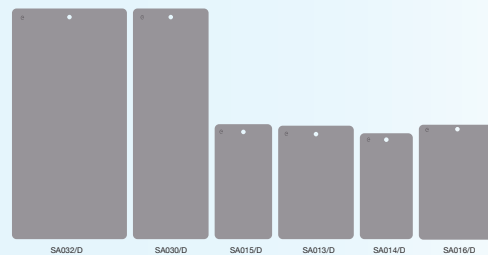
## SG GALVANIZED STEEL Cold rolled - F 6702 (UNE - 36 130-76)

CODE	SIZE (mm)	BOX QUANTITY
SG015	152 x 76 x 0,8	120

\* Minimum order quantity.

## SA

**Material:** Cold Rolled Steel  
**Thick:** 0,8 mm.  
**Hole:** ø 6 mm.



## SB

**Material:** Steel.  
**Thick:** 0,5 mm.  
**Hole:** ø 6 mm.



## SG

**Material:** Galvanized Steel.  
**Thick:** 0,8 mm.  
**Hole:** ø 6 mm.



# SPECIAL METAL PANELS

## HIDING POWER PANELS

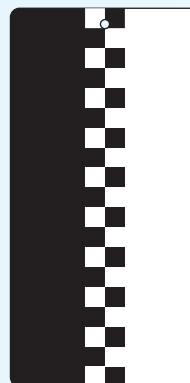
Tin plate panels lithographed in black and white to measure the covering power of powder coatings, paints, varnishes and other coatings. These panels are manufactured using a neutral white, especially designed to resist high temperatures.

### TC TINPLATED STEEL B/W square finish

CODE	SIZE (mm)	BOX QUANTITY
TC100	250 x 125 x 0,3	150

### TC

**Material:** Tin Plate  
**Thick:** 0,3 mm.  
**Hole:** ø 6 mm.



TC100

## PANELS FOR GRADIENT OVEN

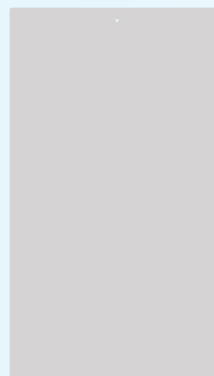
Carbon steel and aluminium panels for Gradient Ovens.

### AF ALUMINIUM Alloy: 1050 H14

CODE	SIZE (mm)	BOX QUANTITY
AF501	568 x 98,5 x 0,8	50*

### AF

**Material:** Aluminium  
**Thick:** 0,8 mm.  
**Hole:** ø 8 mm.



AF501



SA501

### SA CARBON STEEL Cold rolled smooth finish

CODE	SIZE (mm)	BOX QUANTITY
SA501	568 x 98,5 x 0,8	50*

### SA

**Material:** Steel  
**Thick:** 0,8 mm.  
**Hole:** ø 8 mm.

\* Minimum order quantity.

## PANELS FOR ABRASION "TABER"

Carbon steel and aluminium panels for "TABER" Abrasion machine, with rounded corners and a 6,5 - 8 mm. hole in the middle.

### SC CARBON STEEL/ALUMINIUM Cold rolled smooth finish - hole ø 6,5 / 8 mm.

CODE	SIZE (mm)	BOX QUANTITY
SC100	100 x 100 x 2	250

### SC

**Material:** Steel/Aluminium  
**Thick:** 2 mm.  
**Hole:** ø 6 / 8 mm.



SC100

\*\*"Taber" is a TABER INDUSTRIES Trademark

# SPECIAL METAL PANELS

## FARADAY BOX PANELS

This type of panel with angles of 45° and 90° has been designed to simulate cavities which are found in doors, drawers, wavy profiles, etc.

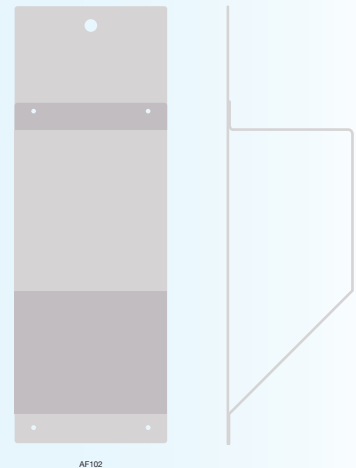
It is used to carry out tests and to evaluate different systems of application of coatings, such as: The weight capacity of a product or application system, the Faraday effect on systems of electrodeposition, thicker film weight on outside surfaces, corrosion points in the cavities and inside folds.

### AF ALUMINIUM

CODE	SIZE (mm)	BOX QUANTITY
AF102	230 x 80 x 0,8 (67 height)	100

### AF

**Material:** Aluminium  
**Thick:** 0,8 mm.  
**Angles:** 45° and 90°.



## CURVE PANELS

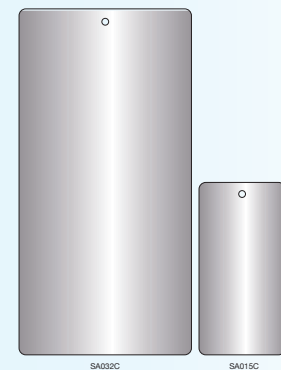
Curve Panels in aluminium and others kinds of metal. These panels are been designed to simulate and test the applications over curve pieces (cars applications and many others).

### SA CARBON STEEL Cold rolled smooth finish

CODE	SIZE (mm)	BOX QUANTITY
SA015C	152 x 76 x 0,8	200
SA032C	305 x 152 x 0,8	200

### SA

**Material:** Carbon steel  
**Thick:** 0,8 mm.



### AB ALUMINIUM Alloy: 5005 H24

CODE	SIZE (mm)	BOX QUANTITY
AB015C	152 x 76 x 0,8	200

### AB

**Material:** Aluminium  
**Thick:** 0,8 mm.



# SPECIAL METAL PANELS

## SAG FLAT PANELS

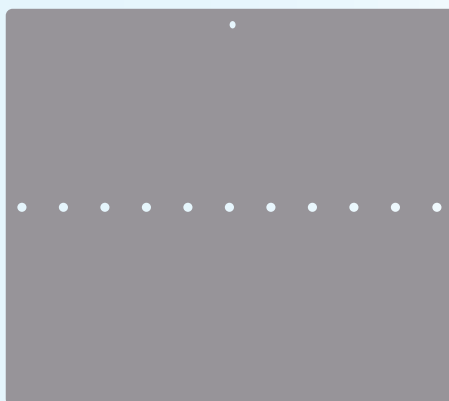
This flat panel with neat holes simulates flat body surfaces where trim mouldings are mounted. Its special configuration is used to evaluate sagging and run down properties of paint. Its specific configuration is used to evaluate the resistance to sagging and dripping of the coating. It is also used to see the variations in thickness of the film produced by the sliding of the liquid film.

### SA COLD ROLLED STEEL 11 holes Ø 8.

CODE	SIZE (mm)	BOX QUANTITY
SA101	400 x 350 x 0,8	100

## SA

**Material:** Steel  
**Thick:** 0,8 mm.  
**Hole:** 11 x ø 8 mm.



SA101

## SAG PANELS POWDER COATINGS

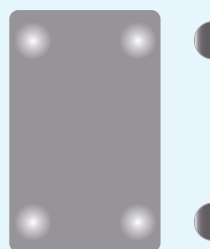
These are flat panels with four cavities in which the powder coating is deposited to carry out tests for sagging. This panel is reversible and can be used for up to 4 tests. It comes with an engraved ruler for measuring. On special request we can supply a base with two angles of inclination (45° and 90°) to carry out the tests.

### SA COLD ROLLED STEEL

CODE	SIZE (mm)	BOX QUANTITY
SA020	160 x 100 x 0,8	120*

## SA

**Material:** Steel  
**Thick:** 0,8 mm.  
**Hole:** ø 8 mm.



SA020

# MULTI PANELS SHEETS

## MULTIPANEL SHEETS IN ALUMINIUM

Aluminium panels for the manufacture of sample catalogues, customers' samples, product codification, end of production controls, etc.

On request, we can design panels to meet the requirements of our customers and can vary the inside and/or the outside measurements in order to adapt to any individual customer's coating or control requirements. (Coating lines, laboratory ovens, samples, etc.)

The Multipanel sheet has the advantage of permitting the coating of all the panels at the same time, separating them easily by hand for later use.

**Application advantages:** You obtain a uniform coating on all the panels. The drying of the panels is the same for all of them, thus obtaining an identical colour and gloss. Less time in coating the panels for larger quantities of samples obtained.

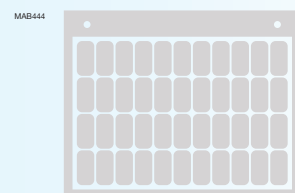
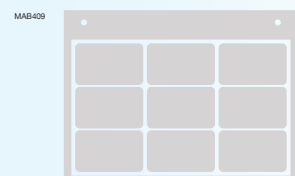
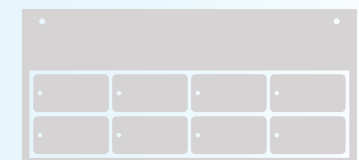
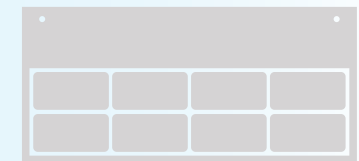
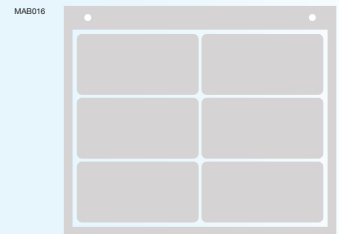
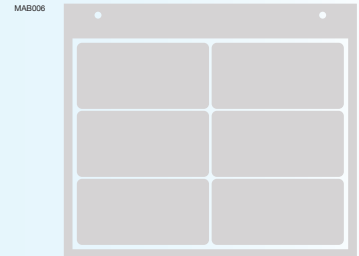
The Multipanel sheets are normally manufactured in Aluminium, but can also be made in other metals, such as Carbon Steel, Galvanized or Stainless Steel.

### **MAB** ALUMINIUM Alloy: 1050 H14

CODE	SIZE (mm)	UNITS (per panel)	BOX QUANTITY
MAB006	152 x 76 x 0,8	6	250
MAB016	140 x 70 x 0,8	6	250
MAB050	100 x 50 x 0,8	8	250
MAB051	100 x 50 x 0,8	8	250
MAB409	90 x 55 x 0,8	9	250
MAB444	40 x 20 x 0,8	44	250

## MAB

**Material:** Aluminium  
**Thick:** 0,8 mm.  
**Advantages:** coating all the panels at the same time.



# SAMPLE PANELS / FILE

## COVERS FOR SAMPLES

Very strong transparent plastic covers for 10 sample panels size 100x50x0,6 mm. (AA010) It is possible to insert one on each side (20 panels). Preparation of catalogue samples, samples for customers, codification of products, etc.

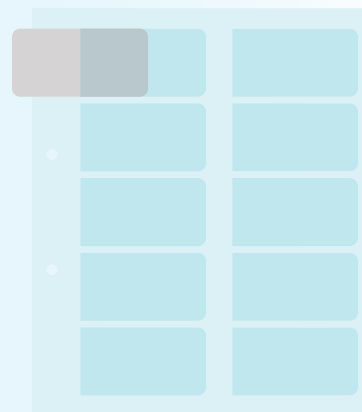
These are suitable for filing in a standard 4-ring file.

### PL TRANSPARENT PVC

CODE	SIZE (mm)	BOX QUANTITY
PL100	DIN A4	50

## PL

**Material:** Transparent plastic  
**Size:** 10 panels (100x50x0,6).  
**Quantity:** Up to 20 panels.



PL100

## PANELS FOR SAMPLES AND COLOUR CHARTS

Oval, round, or square panels, etc. manufactured in 1050 H14 aluminium in 0,5 and 0,6 mm. thickness with 6 mm. diameter hole. We can design panels made to measure on request.

### AA ALUMINIUM SQUARE

CODE	SIZE (mm)	BOX QUANTITY
AA010	100 x 50 x 0,6	400

### AC ALUMINIUM OVAL

CODE	SIZE (mm)	BOX QUANTITY
AC006	64 x 32 x 0,5	1400

### AC ALUMINIUM ROUND

CODE	SIZE (mm)	BOX QUANTITY
AC002	Ø 60 x 0,5	500

## AA

**Material:** Aluminium  
**Thick:** 0,6 mm.

## AC

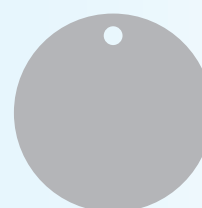
**Material:** Aluminium  
**Thick:** 0,5 mm.

## AC

**Material:** Aluminium  
**Thick:** 0,5 mm.



AA010



AC002



AC006

# NON-METALLIC PANELS

## GLASS PANELS

Panels in flat glass with polished edges in accordance with regulations UNE-EN ISO 1514.

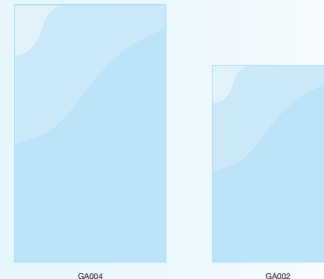
### GA TRANSPARENT GLASS

Polished edges

CODE	SIZE (mm)	BOX QUANTITY
GA004	170 x 100 x 4	20
GA002	130 x 80 x 4	25

### GA

**Material:** Transparent glass  
**Finish:** Polished edges.



## POLYSTYRENE PANELS

Polystyrene panels in black and white with a glossy finish on one side protected by a transparent film.

### F POLYSTYRENE GLOSSY WHITE

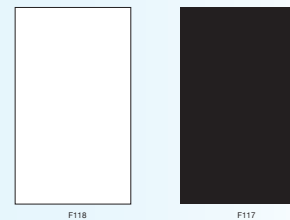
CODE	SIZE (mm)	BOX QUANTITY
F118	127 x 80 x 1,5	200

### F POLYSTYRENE GLOSSY BLACK

CODE	SIZE (mm)	BOX QUANTITY
F117	127 x 80 x 1,5	200

### F

**Material:** Polystyrene  
**Colors:** Black & white.  
**Finish:** Glossy.



## POLYPROPYLENE PANELS

Polypropylene panels in black, glossy one side.

### F POLYPROPYLENE GLOSSY BLACK

CODE	SIZE (mm)	BOX QUANTITY
F195	160 x 80 x 2	100

### F

**Material:** Polypropylene  
**Color:** Black.  
**Finish:** Glossy (1 side).



## POLYVINYL CHLORIDE (PVC)

Polyvinyl chloride panels in grey, glossy one side.

### F POLYPROPYLENE GLOSSY GREY

CODE	SIZE (mm)	BOX QUANTITY
F199	160 x 80 x 2	100

### F

**Material:** PVC  
**Color:** Grey.  
**Finish:** Glossy (1 side).



\*We can also supply panels in the following materials:  
Cellulose Acetate, Methacrylate (PMMA), Polycarbonate, etc.

# OTHERS

## DRY EXTRACT DISHES (NON-VOLATILE MATTER)

Metal dish with flat bottom to determine the content of non-volatile matter, manufactured in accordance with regulation "UNE 48-087-92".

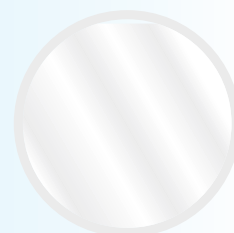
### CFP DRY EXTRACT DISHES

Tin plate 0,3 mm.

CODE	SIZE (mm)	BOX QUANTITY
CFP75	Ø 75	512

## CFP

**Material:** Tin Plate  
**Thick:** 0,3 mm.  
**Norm:** UNE 48 -087 - 92



CFP75

## LABORATORY CUPS

Manufactured in plasticized carton, resistant to a wide range of solvents, hydrocarbons, ketones, alcohols, etc. Resist temperatures from  $\pm 150$  °C and  $-20$  °C.

### LABORATORY CUPS

Plasticized carton

CODE	SIZE (cc)	BOX QUANTITY
V1	250	1.000

## V1

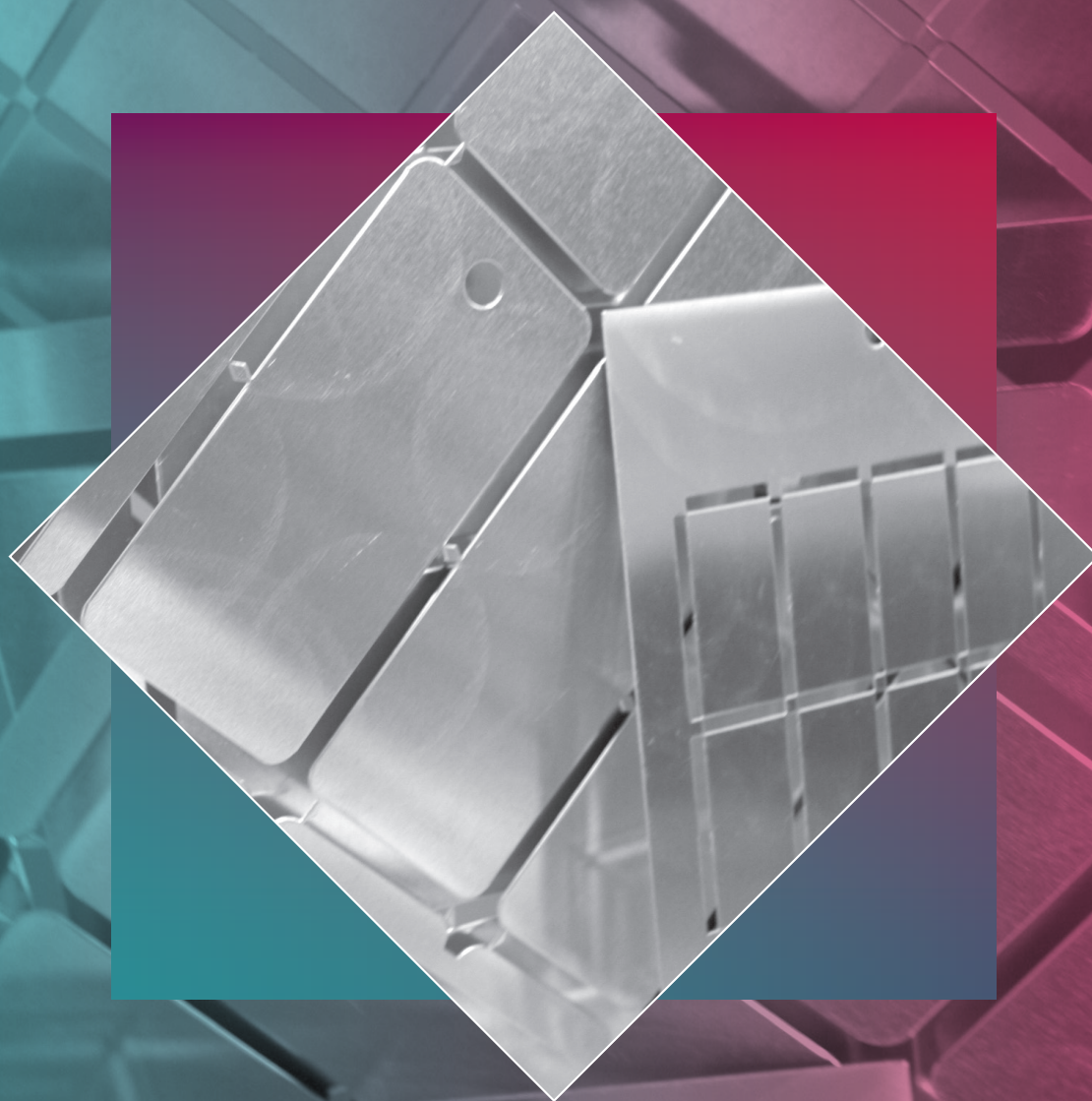
**Material:** Plasticized carton  
**Temperature resist:**  $\pm 150$  °C and  $-20$  °C



V1

# PERSONALIZED COLOUR CHARTS

GIVE TO CUSTOMER'S A REAL  
SAMPLE OF YOUR COATINGS WITH  
OUR MULTI PANELS SYSTEM



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