

# Tin-based rolled products

MÉTA CONCEPT



- Sheets, circles and foils
- Impeccable surface finish
- Euthinal® for crack-free embossing
- Custom shapes to order

## ROLLED SHEET

The standard alloy used for tin sheet production is Sn95 Sb4 Cu1. The sheet products listed in the reference table below are kept in stock at all times. They are packed in wooden crates to protect it from scratching. A special treatment called Euthinal® prevents micro-cracking when these products are used in embossing processes. They are perfectly suitable for tableware applications.

Code	Description	Dim. (mm)	Thickness	Approx. weight per sheet
36263	Rolled sheet Sn95 Sb4 Cu1	1500 X 700	1.00 mm	7.6 Kg
37718	Rolled sheet Sn95 Sb4 Cu1	1500 X 700	1.10 mm	8.4 Kg
34075	Rolled sheet Sn95 Sb4 Cu1	1500 X 700	1.20 mm	9.2 Kg
36556	Rolled sheet Sn95 Sb4 Cu1	1500 X 700	1.40 mm	10.7 Kg
36206	Rolled sheet Sn95 Sb4 Cu1	1500 X 700	1.60 mm	12.2 Kg
51183	Rolled sheet Sn95 Sb4 Cu1	1500 X 700	1.80 mm	13.8 Kg
36724	Rolled sheet Sn95 Sb4 Cu1	1500 X 700	2.00 mm	15.3 Kg

Métaconcept operates a recovery service for white metal oxides, spent baths, off-cuts and scrap. Feel free to contact us for terms and conditions (cf. our "Recycling" information sheet).

## ROLLED FOIL

Métaconcept supplies various types of foil. Dimensions are listed in the table below:

ALLOY	Thickness		Width	
	minimum	maximum	minimum	maximum
Pure Sn	0.05 mm	0.75 mm	6.5 mm	355 mm
Sn/Sb	0.025 mm	0.75 mm	6.5 mm	230 mm
	0.03 mm	0.75 mm	6.5 mm	355 mm
Pure Pb	0.125 mm	0.75 mm	12 mm	355 mm
High Pb content	0.0275 mm	0.75 mm	12 mm	355 mm
60/40–63/37	0.03 mm	0.75 mm	12 mm	355 mm
	0.05 mm	0.75 mm	5.5 mm	355 mm

## CIRCLES

Our shape-cutting capabilities depend on the alloy thickness, as shown in the table below:

Diameter in mm	18.6-100	100-150	150-200	200-600
Thickness in mm	0.5-10	0.50-5.00	0.70-3.00	0.7-2.50

## STANDARD ALLOYS

The most commonly-used alloys, for which we maintain permanent stocks of ready-to-roll raw materials, are listed below:

Alloy	Melting point
Sn92Sb6Cu2	230 - 260° C
Sn93Sb5.5Cu1.5	227 - 300° C
Sn93Sb7	232 - 244° C
Sn95Sb4Cu1	227 - 265° C
Sn100	232° C

## STANDARD SHAPES

Métaconcept can supply all types of sheet, subject to the following maximum dimensions:

Thickness (mm)	Length x max. width (mm)	Thickness tolerance (mm)	Length & width tolerance (mm)
0.50 - 0.70	2 000 x 700	+/- 0.05	+/- 1.50
0.75 - 2.00	2 000 x 1 000	+/- 0.05	+/- 1.50
2.50 - 6.00	1 000 x 600	+/- 0.10	+/- 1.50

## CUSTOM SHAPES

Métaconcept offers a custom cutting service for all shapes, subject to the above maximum sheet sizes. Feel free to contact us with an accurate, detailed plan with the required dimensions.

## CHARACTERISTICS

Métaconcept rolled sheets and pre-cut disks are manufactured exclusively from new metal to ensure maximum purity. Our factories have carefully identified which alloys yield the best compromise between toughness, hardness and ductility in our rolled sheet and circles.

Goods are shipped in special packaging designed to prevent damage during transport.

## TYPICAL APPLICATIONS

Automotive heat exchangers  
Military hardware and munitions  
Electronic component assembly  
Radiation protection  
Seals  
Packaging  
Pewter ware  
Arts and crafts

## SAFETY PRECAUTIONS

When handling circles and rolled sheets, take great care to avoid scratching. Remember that sheet edges can be very sharp.

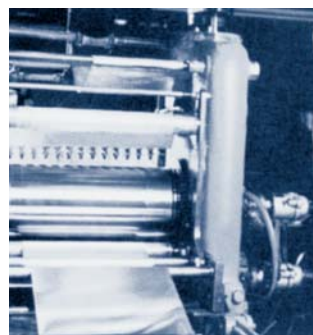
We recommend wearing gloves when handling these products.

## NOTES

Special circles for tankard lids.

We can produce other rolled parts to order, e.g. square, rectangular or diamond-shaped parts - feel free to contact us.

Sheets leaving the rolling mill



Foil rolls packed for transport



All the information in this document is provided for guidance only and Métaconcept declines all liability in respect thereto.