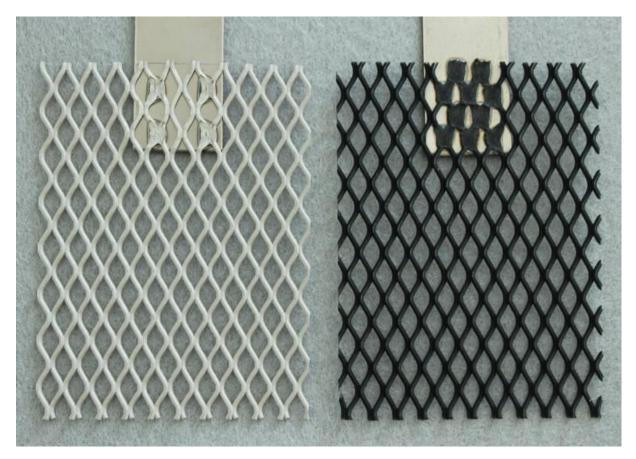


Anodes

Appearence

Titanium mesh coated with Platinum or mixed oxides



Pt/Ti Anode, Net Type A

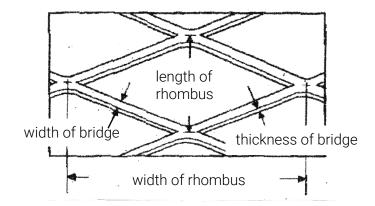
Mixed Oxide Anode, Net Type A





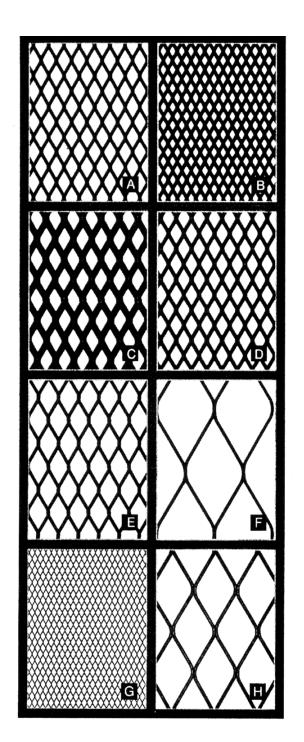
Expanded Me	tals – mesh sizes
--------------------	-------------------

Туре	length of rhombus	width of rhombus	width of bridge	thickness of bridge
	[mm]	[mm]	[mm]	[mm]
A	10,00	5,00	1,00	1,00
В	6,00	3,00	1,00	1,00
C1	18,00	8,00	2,00	2,00
C2	12,50	7,00	2,00	2,00
D2	12,00	6,00	1,50	1,50
D3	16,00	8,00	2,00	2,00
E	16,00	8,00	1,00	1,00
F	39,00	16,00	1,00	1,00
G	4,00	2,00	0,50	0,50









I Anodes_E





	Pt 1,5 μm	Pt 2,5 µm	MOX
Coating	Pt	Pt	Ir mixed oxides
Colour	grey	grey	black
Condition	Macroporous	Macroporous	Microporous
Layer	30 g Pt/m ²	50 g Pt/m ²	12,5 g lr/m ²

Layer Characteristics

Field of Application

	Pt 1,5 µm	Pt 2,5 µm	MOX
Gold bathes, alkaline	\checkmark	✓	
Gold bathes, alkaline cyanidic			\checkmark
Gold bathes, weak acidic	✓	✓	
Gold bathes, strong acidic	✓	~	
Rhodium bathes, strong acidic	~	~	
Platinum bathes, strong acidic	\checkmark	~	
Ruthenium bathes, strong acidic	\checkmark	✓	
Palladium bathes, alkaline			\checkmark
Silver bathes, alkaline cyanidic			\checkmark
Bronze bathes, alkaline cyanidic			\checkmark
Precious metal recovery			\checkmark
Anodizing	\checkmark	\checkmark	





Operating Conditions

Anodic current density: 0 – 30 A/dm²

Type of current: Direct, pulsed, reverse pulsed

Bath temperature: 20 – 80 °C

Lifetime of Anodes

The lifetime of an anode depends on type of bath, temeperature of bath and anodic current density.

Concentrated sulfuric acid, fluoride solutions and hydrochloric acid reduces the lifetime of anodes.

In shut down periods, anodes should be removed from the bathes, carefully rinsed with deionized water and blown dry.

Do not rub or scratch anodes, otherwise the surface is damaged.

If the voltage rises during operation, this can be a sign, that layer of the anode has been removed partly, the titanium is free and has been passivated.

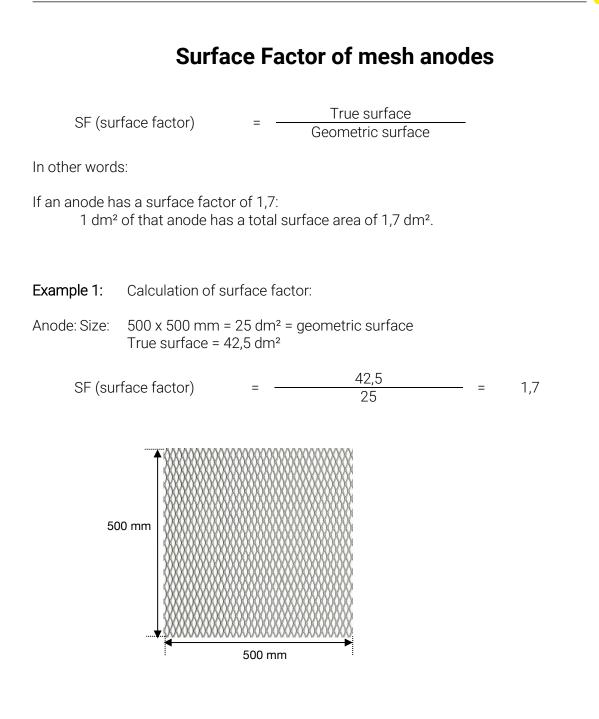
Disposal and Recycling

To recover the precious metal from your anodes we recommend to recycle the anodes.

We willingly provide a recovery offer for you.











Example 2: Calculation of true surface: Anode: Size: 350 x 400 mm = 14 dm² = geometric surface Surface factor = 0,7True surface SF (surface factor) = Geometric surface True surface Geometric surface x SF (surface factor) = True surface 14 x 0,7 9,8 dm² = = 400 mm 350 mm

FOR ANY FURTHER INFORMATION WE WILL BE PLEASED TO BE AT YOUR DISPOSAL PERSONALLY UNDER+ 43 (0)2287 71073 OR <u>OFFICE@IWGPLATING.COM</u>.

02/2025

This information sheet supersedes and replaces any previous version of this information sheet.

This information shall be followed by every treatment, application, use and handling of our products and chemicals for your own safety. The information, directions for use, instructions and notices set forth herein with developed according to our best knowledge and belief. We do not assume liability for improper treatment, handling or use of our products and in particular of the chemicals and for the violation of this information

IWG Ing. W. Garhöfer Ges.m.b.H Sonnenblumenweg 1 A-2282 Markgrafneusiedl + 43 (0)2287 71073

office@iwgplating.com

