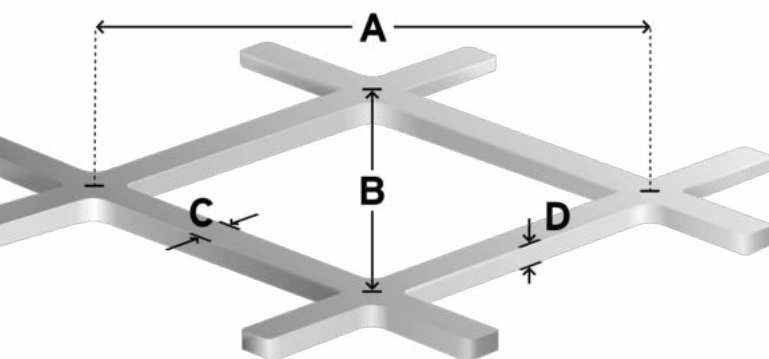


Expanded metal types - Niob

Type	Surface factor	Expanded metal formula	Mesh length	Mesh width	Web width	Web thickness	Weight / surface area	Expanded metal lattice thickness
			mm	mm	mm	mm	g / dm ²	mm
		A × B × C × D	A	B	C	D		
A	1.4	10 × 5 × 1.0 × 1.0	10	5	1.0	1.0	22.61	1.50
B1	1.7	6 × 3 × 1.0 × 0.5	6	3	1.0	0.5	21.21	0.70
B3	1.7	6 × 4 × 1.0 × 1.0	6	4	1.0	1.0	54.00	1.40
C1	1.8	13 × 7 × 1.7 × 1.5	13	7	1.7	1.5	61.07	1.90
C2	2.1	20 × 8 × 2.5 × 2.0	20	8	2.5	2.0	79.88	2.50
G	1.8	4 × 2 × 0.5 × 0.5	4	2	0.5	0.5	15.49	0.70

Expanded metal types - Titanium

Type	Surface factor	Expanded metal formula	Mesh length	Mesh width	Web width	Web thickness	Weight / surface area	Expanded metal lattice thickness
			mm	mm	mm	mm	g / dm ²	mm
		A × B × C × D	A	B	C	D		
A	1.3	10 × 5.5 × 1.0 × 1.0	10	5.5	1.0	1.0	13.86	1.50
B	1.7	6 × 3.5 × 1.0 × 1.0	6	3.5	1.0	1.0	23.76	1.40
C1	1.8	13 × 7.5 × 2.0 × 2.0	13	7.5	2.0	2.0	48.00	2.70
C2	2.1	16 × 8.0 × 2.5 × 2.5	16	8.0	2.5	2.5	72.40	3.90
D2-f	1.6	13 × 7.5 × 1.5 × 1.5	13	7.5	1.5	1.5	39.53	1.80
D3-f	1.8	16 × 8.5 × 2.0 × 2.0	16	8.5	2.0	2.0	44.95	2.20
E	0.8	16 × 8.0 × 1.0 × 1.0	16	8.0	1.0	1.0	11.25	1.90
G	1.8	4 × 2.0 × 0.5 × 0.5	4	2.0	0.5	0.5	11.59	0.70
H	0.6	28 × 12.0 × 1.0 × 1.0	28	12.0	1.0	1.0	9.09	1.20
M	2.8	0.6 × 0.5 × 0.18 × 0.1	0.6	0.5	0.18	0.1	3.32	0.13



A = Mesh length
B = Mesh width
C = Web width
D = Web thickness

Applications and anode selection - Electrochemistry

METAKEM electrodes are used for various applications in many industries.

The following table provides an overview of which anode types can be used in each area:

	Pt-Titanium	Pt-Niob	Ir-MOX*	Ir / Ru-MOX*	Diamond-Nb
Electroplating					
Hard chrome plating	X	X			
Decorative chrome plating (fluoride-free)	X				
Chrome-III-baths (technical & decorative)			X		
Steel strip finishing			X		
Precious metal coating	X	X	X		
Electro-tinning			X		
Steelcord plating			X		
Wire and pipe coating			X		
Cathodic dip coating			X		
Electrolytic phosphating			X		
Electronics					
PCB electroplating	X		X		
Wafer electroplating	X		X		
Reel-to-reel coating	X		X		
Copper foil production			X		
Aluminium anodising (cathodes)	X				
Cathodic corrosion protection					
Container			X	X	
Pipelines			X		
Reinforced concrete			X	X	
Wall dehumidification			X		
Sea installations	X	X	X	X	
Water disinfection + water chlorination					
Swimming pools			X	X	X
Antifouling			X	X	X
Ballast water from ships			X	X	X
Process water treatment					
Metal recovery	X		X		
Anodic oxidation	X		X		X
Electrodialysis	X		X		
Electroflotation			X		
Electrosynthesis					
(In)organic compounds	X	X	X	X	X
Metal extraction electrolysis			X		
Electrochemical machining (ECM)					
Contact electrodes	X	X			

* = dependent on chloride concentration