

*Taming friction and wear for smooth
and efficient operation of your machinery*



SINTERED BRONZE FILTERS AND SILENCERS

Revision: October 2022

CERAMET

About us

Trusted Original Manufacturer Since 1965

Ceramet, trusted manufacturer of sintered porous bronze filters. Ceramet a well-known specialty powder metallurgy manufacturer, was founded in 1965 in Poland.

Easy to deal with

We provide a personal and easy way of communication from initial inquiry to after sales service. Put us to the test.

Reliable partner

Choosing the right partner for your bearing needs is a matter of trust. Consistency in product and service quality, loyalty and respect are our core values. We strive to be long term partners for our customers. We look back to decades of continuous development and reliable service for the industry.

Sintered bronze filters

Powder metallurgy technology makes possible obtaining highly porous metal materials intended, among others, for purification, flow calming, deoiling of liquids and gases, and for production of catalytic agents, electrodes, returnable safety devices and drains. High accuracy of purification, good mechanical and plastic properties, thermal resistance, resistance to corrosive effect of filtered agent, easy regeneration and good machinability are basic advantages of sintered filters. The products are used, among others, in aircraft, automotive, chemical and machines - tool industries.



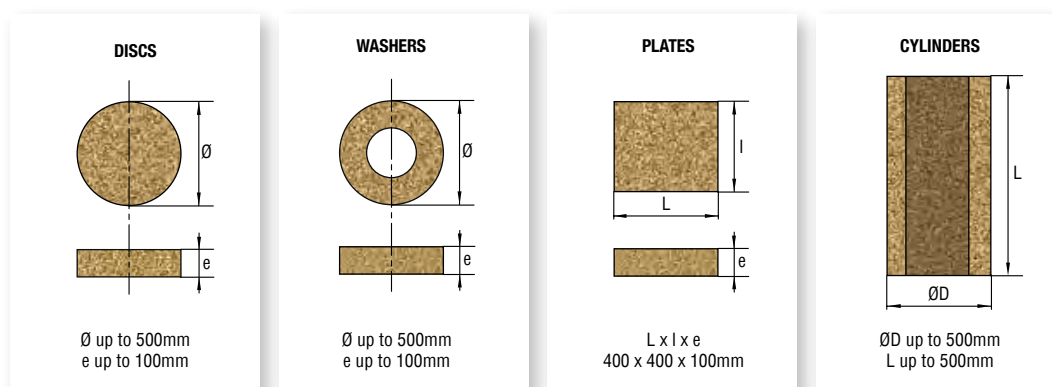
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Sintered bronze filters and silencers

SINTERED BRONZE FILTERS AND SILENCERS PROVIDE THE GREATEST ADVANTAGE IN CRITICAL APPLICATIONS

- High filtering efficiency, also under high pressure
- Corrosion resistant
- High temperature resistance
- Easy to clean
- Easy to implement

DIMENSIONS



BEST FIT FOR CERAMET FILTERS AND SILENCERS

- Filtering - allows for filtering at high pressure and high temperatures with high corrosion resistance
- Separation - allows for separation of fluids or gas due to differential surface tension once with contact with metallic filter elements
- Diffusion - Fluid or gass homogenous distribution due to uniform porosity
- Capillary effect and fluidisation
- Silencing
- Sensor and valve protection



Properties of bronze filters

Mark of material	Maximum pore size [µm]	Absolute purification accuracy [µm]	Nominal purification accuracy based on stopping 95% of particles [µm]	Diameter of raw material particles
00BLP - 010	10	4,5	4	0.04 - 0.06
00BLP - 020	20	9	8	0.06 - 0.088
00BLP - 040	40	18	15	0.088 - 0.12
00BLP - 050	50	23	19	0.12 - 0.15
00BLP - 070	70	32	27	0.15 - 0.20
00BLP - 100	100	45	38	0.20 - 0.25
00BLP - 120	120	54	46	0.25 - 0.30
00BLP - 150	150	68	57	0.30 - 0.385
00BLP - 200	200	90	76	0.385 - 0.43
00BLP - 250	250	113	85	0.43 - 0.7

Given values of absolute purification accuracy were calculated by multiplying maximum pore size by coefficient 0.45
 Given values of nominal purification accuracy based on stopping 95% of particles were calculated by multiplying maximum pore size by coefficient 0.38.

Mark of material	Open porosity [%]	Density [g/cm ³]	Tensile strength [MPa]	Elongation [%]	Electrical conductivity [S/m]
	Min	Max			
00BLP - 010	20	6.9	90	9	2.6 x 10 ⁶
00BLP - 020	20	6.9	90	9	2.6 x 10 ⁶
00BLP - 040	20	6.9	60	8	1.9 x 10 ⁶
00BLP - 050	20	6.9	60	8	1.9 x 10 ⁶
00BLP - 070	22	6.8	50	6	1.5 x 10 ⁶
00BLP - 100	25	6.6	50	6	1.5 x 10 ⁶
00BLP - 120	25	6.5	35	4	1.3 x 10 ⁶
00BLP - 150	26	6.4	30	4	1.3 x 10 ⁶
00BLP - 200	26	6.4	25	2	1.1 x 10 ⁶
00BLP - 250	27	6.2	20	2	1.1 x 10 ⁶

CHEMICAL COMPOSITION

Material grade CuSn10	Composition [%]		
	Cu rest	Sn 9 - 11	Impurities max. 0.15

Sintered filters of different technical parameters and chemical composition may be produced on customer's request.
 Shapes and dimensions of sintered bronze filters depend on their application and are adapted to individual request of customers.