

POWDERS FOR COLD SPRAY, 2019

(General List)

Blend name	Base metal	Additives	Destination	Remarks
K-80-13 A-80-13	Aluminum	Alumina Zink	Build up material to restore shape and volume of metal parts. 45 eur/kg	The small volume of zink additive serves to prevent nozzle clogging.
K-20-11 A-20-11	Aluminum	Alumina Zink	Sealing up material to fill slits and holes in metal parts. 45 eur/kg	The volume of zink additive promotes holes and slits plugging.
K-00-11 Z-00-11	Zink	Alumina	Corrosion protection at local areas of steel constructions. 45 eur/kg	.
K-01-01 C-01-01	Copper	Alumina	Build up material to improve electric and heat conductivity. Electric contacts and conducting lines at any metals and ceramic. Coating for soldering. 45 eur/kg	Aluminum sublayer is required at ceramic substrate.
K-01-11 C-01-11	Copper	Alumina Zink	Sealing up material to fill slits and holes in metal parts. Build up material for operating temperatures up to 800° C. 45 eur/kg	The volume of zink additive promotes holes and slits plugging.
K32 N3-00-02	Nickel	Alumina	Protective coating in aggressive and high temperature media. Build up material. 120 eur/kg	.
K714 N7-00-14	Nickel	Alumina Zink	Sealing up material to fill slits and holes in metal parts, build up material for operating temperatures up to 1200° C. 120 eur/kg	The volume of zink additive promotes holes and slits plugging.
T2-00-05	Tin	Alumina	Protective coating at electric contacts. 80 eur/kg	.
TP-63-25	Tin alloy	Alumina	Protective coating at electric contacts. ____ Sn(63%)-Pb alloy 80eur/kg	.
B83-100-40	Babbitt B83	.	Restoration of slide bearings cast-on babbitt B83. ____ Sn(83%)-Cu-Sb alloy 120 eur/kg	Special tool SBB-03 is required.
P1-00-01	Lead	Alumina	Corrosion protection in aggressive media. Porosity and screws sealing up. 35 eur/kg	.
K-00-04-16	.	Alumina	Blasting media to prepare substrate surface.	Increased nozzle

			20 eur/kg	insert wear.
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(General List powder blends are applied in most applications)

(Special List)

Blend name	Base metal	Additives	Destination	Remarks
K-20-01 A-20-01	Aluminum	Alumina	Build up material to restore aluminum part shape. Microscopic leakages sealing up . Corrosion protection. 50 eur/kg	Nozzle insert clogging is possible.
K-10-01 A-10-01	Aluminum	Alumina	Build up material to restore aluminum part shape. Microscopic leakages sealing up . Corrosion protection. 50 eur/kg	Nozzle insert clogging is possible at upper temperature settings.
K-10-04 A-10-04	Aluminum	Alumina	Prime layering for nickel and copper coating deposition to ceramic substrates. 50 eur/kg	Increased nozzle insert wear.
A-20-10	Aluminum	Zink	Conducting coatings at glass substrate. 50 eur/kg	Regular deposits buildup at nozzle walls.
C-03-10	Copper	Zink	Conducting coatings for soldering at glass substrate. 50 eur/kg	Reduced bond strength. Aluminum sublayer is recommended.
C-01-00	Copper	.	Auto-limited thickness coating for soldering. 45 eur/kg	Reduced deposition efficiency. Rough substrate surface is required.
K-00-04-02	.	Alumina	Blasting media for ceramic and other sensitive surfaces. 30 eur/kg	Increased nozzle insert wear.

(Special List powder blends are applied in the cases when General List powder blends are not applicable)