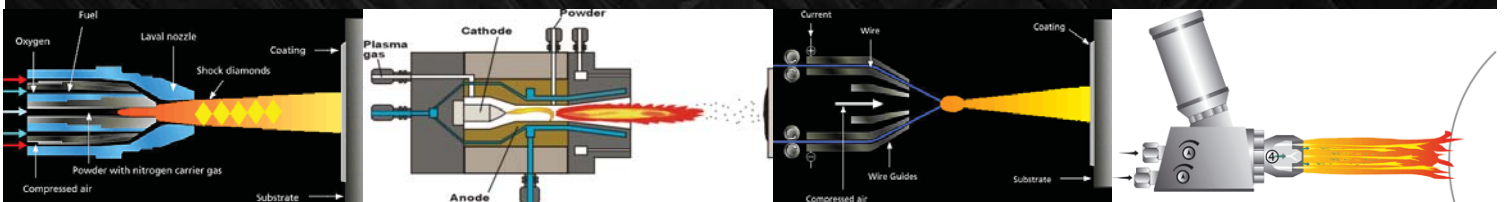


METALTROPOLIS SUPPLIES

SPECIALIST IN WEAR RESISTANT PRODUCTS & SOLUTIONS



POWDERS

CARBIDES - NICKEL BASE - COBALT BASE

CARBIDES

SEARCO	Description
2400	88% Wc - 1 2% Co
2404	86% Wc - 1 0% Co - 4%Cr
3500	75% CrC - 25% 80/20 NiCr
7301	83% Wc - 1 7% Co
9010	90% Wc - 1 0% Ni

Applications: HVOF Sizing: T 270 / 22
 S 325 / 15
 M 325 / 5

The **SEARCO 2400** can be applied using *Spray & Fuse*.

NICKEL

NICKEL	Description
SP30	1.8B - 2.7Si - 0.8F e
SP40	2.1B - 3Si - 0.8F e - 0.05C
SP42	0.9B - 2.2Si - 2.0F e - 0.06C
SP44	7Cr - 1.7B - 3.5Si - 2.5F e - 0.4C
SP45	12Cr - 2.4B - 3Si - 3F e - 0.5C
SP46	14Cr - 3B - 3.8Si - 3.8F e - 0.8C
SP56	12.5Cr - 2.7B - 3.3Si - 3.3F e - 0.6C
SP72	12Cr - 1.3W - 3.2B - 3Si - 4F e - 0.5C
SP88	13Cr - 1.7W - 3B - 4Si - 3.5F e - 0.6C

Applications: HVOF, PTA, Laser Clad, Spray Fuse, Manual Torch, Plasma Spray.

Sizing HVOF, Plasma Spray: T -270 / +22

Sizing PTA: T 80 / 270
 S 80 / 230
 M 100 / 325

Sizing Laser Clad: T 80 / 270
 S 100 / 325
 M 140 / 325

Sizing Spray & Fuse: S 120 / 325
 M 140 / 400

Sizing Manual Torch: S 140 / Down

COBALT

INTERMETALLIC

COBALT	Description
T400	8Cr - 2.4Si - 1Ni - 28Mo - 1F e
T800	17Cr - 3.2Si - 28Mo - 1F e

Applications: HVOF, PTA, Plasma Spray.

Sizing HVOF/ Plasma: T 270 / 22
S 325 / 15

Sizing PTA: T 80 / 270
S 100 / 325
M 80 / 230

Sizing Laser Clad: T 80 / 270
S 100 / 325
M 140 / 325

COBALT

CARBIDE

COBALT	Description
ALLOY 1	30Cr - 1.2W - 1.5Si - 1.5Ni - 0.5Mo - 1.5Fe - 2.5C
ALLOY 6	29Cr - 4.5W - 1.5Si - 1.5Ni - 0.5Mo - 1.5Fe - 1.2C
ALLOY 12	29Cr - 8W - 1.5Si - 1.5Ni - 0.5Mo - 1.5Fe - 1.6C
ALLOY 21	Co - 27Cr - 0.6Si - 1.0Ni - 5.5Mo - 1F e - 0.3C

Applications: HVOF, PTA, Plasma Spray.

Sizing HVOF/ Plasma: T 270 / 22
S 325 / 15

Sizing PTA: T 80 / 270
S 100 / 325
M 80 / 230

Sizing Laser Clad: T 80 / 270
S 100 / 325
M 140 / 325

Ni + CARBIDE

	Description
40605	NiCrBSi + 60% M WC
356542	NiCrBSi + 65% WC

Applications: HVOF, PTA, Laser Clad.

Sizing HVOF: T 270 / 22
S 325 / 15

Sizing PTA: T 80 / 270
S 100 / 325
M 80 / 230

Sizing Laser Clad: T 80 / 270
S 100 / 325
M 140 / 325

Choice of W₂C, Macro, Wc-Co or Spherical Wc available

For Ni + Carbide, other blends available using 15-70% Carbide

INCONEL ALLOYS

NICKEL	Description
ALLOY C	Ni - 17Cr - 4.5W - 1 7Mo
ALLOY C276	Ni - 15Cr - 3.5W - 1 6Mo
ALLOY 625	Ni - 21Cr - 9Mo - 4Nb+T a
ALLOY C22	Ni - 22Cr - 3W - 1 3.5Mo
ALLOY 718	Ni - 21Cr - 3Mo - 1 7Fe - 5Nb

Applications: HVOF, PTA, Laser Clad.

Sizing HVOF: T 270 / 22
S 325 / 15

Sizing PTA: T 80 / 270
S 100 / 325
M 80 / 230

Sizing Laser Clad: T 80 / 270
S 100 / 325
M 140 / 325