ATLANTIC EQUIPMENT ENGINEERS
HIGH PURITY METALS & COMPOUNDS

Additive manufacturing powders are available in the following stock sizes. If you need to have it customized to your requirements, please indicate the size distribution. They can be tailored to your needs.

1. 0-45 microns
2. 0-53 microns
3. 15-45 microns
4. 15-53 microns
5. 45-150 microns

Product	Composition	Chemical Compositions (wt.%)	
Cobalt Base	CoCrMo alloy powder	Co: Bal.	Cr: 26.6-30
		Mo: 4.5-7.0	Mn: ≤1.0
		Fe: ≤1.0	Ni: ≤1.0
		Si: ≤1.0	C: ≤0.35
	CoCrMoW alloy powder	Co: Bal.	Cr: 23.7-25.7
		W: 4.9-5.9	Mo: 4.6-5.6
		Si: 0.8-1.2	Fe: ≤0.5
		Mn: ≤1.0	
	CoCrW alloy powder	Cr:26-30	W:7.5-9.5
		Si:0.65-2.65	Mn:≤0.5
		Fe:≤0.5	Co:Bal.
		Be:≤0.01	Cd:≤0.01
		Ni:≤0.1	
Iron Base	15-5PH stainless steel powder	C: ≤0.07	Si: ≤1.0
		Mn: ≤1.0	P: ≤0.04
		S: ≤0.03	Ni: 3.5-5.5
		Cr: 14.0-15.5	Cu: 2.5-4.5
		Nb: 0.15-0.45	Fe: Bal.
	17-4PH stainless steel powder	Fe: Bal.	Ni: 3.0-5.0
		Cr: 15.0-17.0	Cu: 3.0-5.0
		Nb: 0.15-0.45	Mn: ≤1.0
		Si: ≤1.0	
	18Ni300 steel powder	Fe: Bal.	Ni: 17.0-19.0
		Mo: 4.5-5.2	Co: 8.5-9.5
		Ti: 0.6-0.8	Al: 0.05-0.15
		Cr: ≤0.3	Mn: ≤0.1
	316L stainless steel powder	Fe: Bal.	Mo: 2.0-3.0
		Cr: 16.0-18.0	Ni: 10.0-14.0
		Mn: ≤2.0	Si: ≤1.0

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Nickel Base	GH3536 superalloy powder	Ni: Bal.	Mo: 8.0-10.0
		Cr: 20.5-23	Fe: 17-20
		Co: 0.5-2.5	W: 0.2-1.0
		C: 0.05-0.15	Ti: ≤0.15
		Si: ≤1.0	P: ≤0.25
		Cu: ≤0.5	Mn: ≤1.0
		Al: ≤0.5	
	GH3625 superalloy powder	Fe: ≤5.0	S: ≤0.015
		P: ≤0.015	Nb: 3.15-4.15
		Ti: ≤0.4	Cu: ≤0.07
		Al: ≤0.4	Mo: 8.0-10.0
		Co: ≤1.0	Cr: 20.0-23.0
		Ni: Bal.	Mn: ≤0.5
		Si: ≤0.5	C: ≤1.0
	GH4099 superalloy powder	C: ≤0.08	Cr: 17-20
		Ni: Bal.	W: 5.0-7.0
		Mo: 3.5-4.5	Al: 1.7-2.4
		Co: 5.0-8.0	Ti: 1.0-1.5
		Fe: ≤2.0	B: ≤0.05
		Mg: ≤0.01	Ce: ≤0.02
		Mn: ≤0.4	Si: ≤0.5
		P: ≤0.015	S: ≤0.015
	K418 superalloy powder	C: 0.08-0.16	Cr: 11.5-13.5
		Ni: Bal.	Mo: 3.8-4.8
		Al: 5.5-6.4	Ti: 0.5-1.0
		Fe: ≤1.0	Nb: 1.8-2.5
		B: 0.008-0.02	Zr: 0.06-0.15
		Mn: ≤0.5	Si: ≤0.5
		P: ≤0.015	S: ≤0.01
		Pb: ≤0.0005	Sb: ≤0.001
		As: ≤0.001	Sn: ≤0.001
		Bi: ≤0.00005	
	K438 superalloy powder	C: 0.1-0.2	Si: ≤0.3
		Mn: ≤0.2	P: ≤0.015
		S: ≤0.015	Cr: 15.7-16.3
		Ni: Bal.	Mo: 1.5-2.0
		Co: 8.0-9.0	Ta: 1.5-2.0
		Fe: ≤0.5	Nb: 0.6-1.1
		B: 0.05-0.015	Ti: 3.0-3.5
		Al: 3.2-3.7	Zr: 0.05-0.15
		W: 2.4-2.8	
	K477 superalloy powder	C: 0.05-0.09	Cr: 14.0-15.25
		Mo: 3.9-4.5	Ni: Bal.
		Co: 14.0-16.0	Al: 4.0-4.6
		Ti: 3.0-3.7	Fe: ≤1.0
		Si: ≤0.5	Mn: ≤0.2
		P: ≤0.015	S: ≤0.01
		B: 0.012-0.02	Zr: ≤0.04
		Ce: ≤0.1	

Titanium Base	NiTi Shape memory alloy powder	Ni: 50.1-55.0	Ti: Bal.
	TA0 Commercially pure titanium powder	Fe: ≤0.2	C: ≤0.08
		H: ≤0.015	Si: Bal.
		Al: 20.0-23.0	V: ≤1.0
		Mo: 8.0-10.0	Sn: ≤0.4
		Ti: ≤0.4	
	TA15 Titanium alloy powder	Ti: Bal.	Al: 5.5-7.1
		V: 0.8-2.5	Zr: 1.5-2.5
		Mo: 0.5-2.0	Si: ≤0.15
	TC11 Titanium alloy powder	Al: 5.8-7.0	Mo: 2.8-3.8
		Zr: 0.8-2.0	Si: 0.2-0.35
		Ti: Bal.	Fe: ≤0.25
		C: ≤0.08	N: ≤0.05
		H: ≤0.012	O: ≤0.15
	TC4 Titanium alloy powder	Ti: Bal.	Al: 5.5-6.75
		V: 3.5-4.5	Fe: ≤0.3
Tantalum powder, spherical	Class 1	99.8% min	<10 microns
	Class 2	99.8% min	10-50 microns
	Class 3	99.8% min	50-150 microns
Titanium powder, spherical	Class 1	99.5% min	0-15 microns
	Class 2	99.5% min	15-53 microns
	Class 3	99.5% min	45-150 microns
Tungsten powder, spherical	Class 1	99.95%	0-15 microns
	Class 2	99.95%	15-53 microns
	Class 3	99.95%	45-150 microns
Tungsten carbide, cobalt binder	Class 1		0-15 microns
	Class 2		15-53 microns
	Class 3		45-150 microns
Molybdenum powder, spherical	Class 1	99.8% min	0-15 microns
	Class 2	99.8% min	15-53 microns
	Class 3	99.8% min	53-150 microns