

PAC Product	Alloy	Similar Powders	Chemical Composition		Chemical Specification				
Stainless Steel Powders					UNS	ASTM	ISO	AMS	DIN
AMP 17-4AR	17-4ph	Stainless Steel 17-4PH CL 92PH	Cr 15.0-17.0	Ni 3.0-5.0	17400	A705	15156-3	5604	1.4542
			Cu 3.0-5.0	Mn 1.0 max		S564		5643	
			Si 1.0 max	Mo 1.0 max		A693			
			Nb+Ta 0.15-0.45	C 0.10 max					
			Fe Bal						
AMP 15-5AR	15-5ph	Stainless Steel 15-5PH	Cr 14.0-15.5	Ni 3.5-5.5	S15500	A705		5659	1.454
			Cu 2.5-4.5	Mn 1.0 max		S564		5862	
			Si 1.0 max	Mo 1.0 max		A693			
			Nb 0.15-0.45	C 0.07 max					
			Fe Bal						
AMP 316L	SS 316L	StainlessSteel 316L CL20ES	C 0.03 max	Si 0.75 max	S31673	F745	5832-1		1.4401
			Mn 2.0 max	P 0.025 max		F138		1.4404	
			S 0.01 max	Cr 17.5-18.0					
			Ni 12.5-13	Mo 2.25-2.50					
			Cu 0.50 max	Fe Bal					

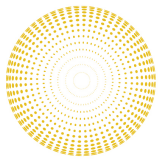
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PAC Product	Alloy	Similar Powders	Chemical Composition		Chemical Specification				
Tool Steel Powders					UNS	ASTM	ISO	AMS	DIN
AMP M300E	18Ni300	CL50WS Tool Steel 1.2709	C 0.03 max	Mn 0.15	K93120			6514	1.2709
			Si 0.10 max	Ni 17.0-19.0					
			Mo 4.50-5.20	Co 8.50-10.0					
			Ti 0.80-1.20	P 0.010 max					
			S 0.010	Fe Bal					

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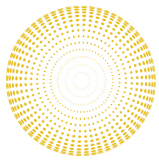
PAC Product	Alloy	Similar Powders	Chemical Composition		Chemical Specification				
Titanium Alloy Powders					UNS	ASTM	ISO	AMS	DIN
AMP 6Al4Vsp5	Ti6-4	Titanium Ti64 CL40Ti	Al 5.5-6.5	V 3.5-4.5	R56400	F1472	5832-3	5954	3.7164
			N 0.03 max	C 0.08 max		B348 gr 5		4911	
			H2 0.0125 max	Fe 0.25 max				4928	
			O 0.20 max	Res Each 0.1					
			Res Total 0.4	Ti Bal					
AMP 6Al4Vsp23	Ti6-4 ELI	Titanium Ti64ELI CL41Ti-ELI	Al 5.5-6.5	V 3.5-4.5	R56401	F136	5832-3	4956	3.7164
			N 0.03 max	C 0.08 max		B348 gr 23			
			H2 0.0125 max	Fe 0.25 max		F3001			
			O 0.13 max	Res Each 0.1					
			Res Total 0.4	Ti Bal					

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Nickel & Cobalt Based Powders					UNS	ASTM	ISO	AMS	DIN
AMP 750	CoCrMo	CoCr28Mo6 CL111	C 0.16 max	Mn 1.0 max	R31538	F1537 F799 F75	5832-4 5832-12		
			Si 1.0 max	Cr 27.0-30.0					
			Ni 0.50 max	Mo 5.0-7.0					
			Fe 0.75 max	S 0.010 max					
			P 0.020 max	Al 0.10 max					
Ti 0.10 max	W 0.20 max								
			B 0.010 max	Co Bal					
AMP 605	Haynes® 25® L605		Cr 20.5-23	Fe 17-20	N06002	B 435 B 572		5536 5754 5798	2.4665
© Haynes International									
AMP 8188	Haynes® 188®		Cr 20.0-24.0	C 0.05-0.015	R3018			5608 5801 5772	2.4683
© Haynes International									
AMP 8814	Haynes® 214®		Cr 15-17	Al 4.1-5.0	N07214				
© Haynes International									
AMP 8830	Haynes® 230®		C 0.05-0.15	Fe 3.00 max	N06230	B435		5878 5891	2.4733
© Haynes International									
Haynes® 282®	Haynes® 282®	Propriety	Propriety			Propriety		Propriety	
© Haynes International									
AMP 8863	Nimonic® C263		C 0.04-0.08	Co 19.0-21.0	N107263			5872	2.465
© Special Metals									
			Cr 19.0-21.0	Mo 5.6-6.1					
			Ti 1.9-2.4	Al 0.6 max					
			Mn 0.60 max	Si 0.040 max					
			Cu 0.20 max	Fe 0.7 max					
			Ni Bal						

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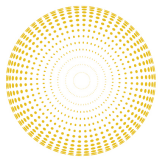


PAC Product	Alloy	Similar Powders	Chemical Composition		Chemical Specification				
Nickel & Cobalt Based Alloy Powder - Continued					UNS	ASTM	ISO	AMS	DIN
AMP X	Hastelloy® X®		Cr 20.5-23 Mo 8-10 Co .5-2.5 W 0.2-1 Al 0.5 max Ti 0.15 max B 0.01 max C 0.10 max	Fe 17-20 Mn 1 max Si 1 max P 0.04 max S 0.03 max Cu 0.5 max Ni Bal	N06002	B 435 B 572		5536 5754 5798	2.4665
<small>© Haynes International</small>									
AMP 718	Inconel® 718	CL100NB	Cr 17-21 Mo 2.8-3.3 Ti 0.65-1.15 Al 0.2-0.8 Co 1 max C 0.08 max Ni 50-55 Cb+Ta 4.75-5.50	Mn 0.35 max Si 0.35 max P 0.015 max S 0.015 max B 0.006 max Cu 0.3 max Fe Bal	7718	B537 B670		5832 5596	2.4668
<small>© Special Metals</small>									
AMP 625	Inconel® 625	CL101NB	Cr 20-23 Mo 8-10 Co 1 max Cb+Ta 3.15-4.15 Al 0.4 max S 0.15 max Ni Bal	Ti 0.4 max C 0.1 max Fe 0.5 max Mn 0.5 max Si 0.5 max P 0.015 max	6625	446 Gr1 443 Gr1		5599 5666	2.4856
<small>© Special Metals</small>									

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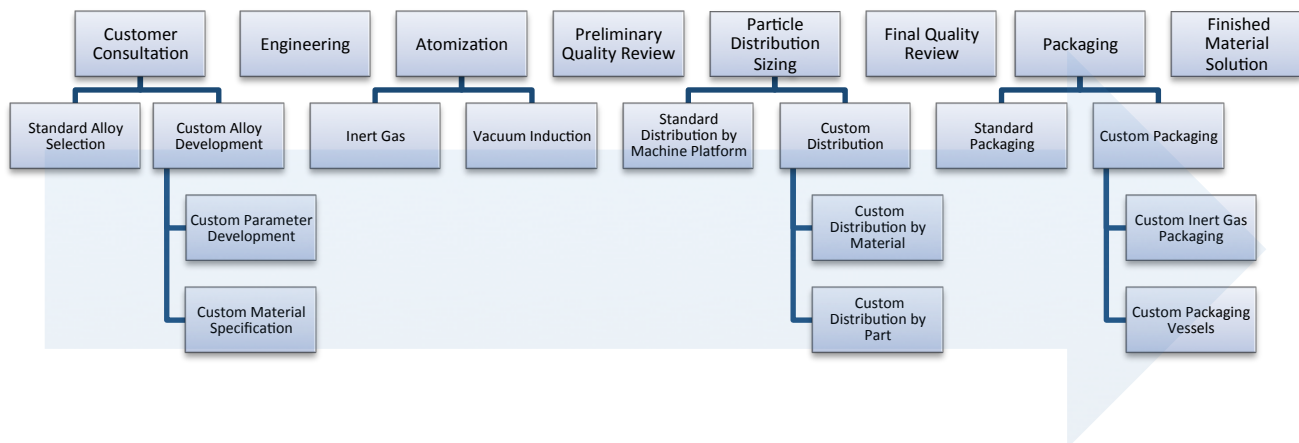
PAC Product	Alloy	Similar Powders	Chemical Composition		Chemical Specification				
Copper Alloy Powders					UNS	ASTM	ISO	AMS	DIN
AMP GR84	GRCop 84		Cr 6.0-7.0 Nb 5.2-6.2	Fe 50ppm Cu Bal					
AMP GR42	GR Cop 42		Cr 3.10-3.40 Nb 2.7-3.0	Fe 50ppm Cu Bal					
AMP Cu150	C18150		Cr 0.50-1.50 Cu Bal	Zr 0.02-0.20	C18150				

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					UNS	ASTM	ISO	AMS	DIN
Aluminum Alloy Powders									
AMP 716	AlSi10Mg	Al Alloy AlSi10Mg CL31Al	Si 9.0-11.0 Fe 0.55 max Cu 0.05 max Mn 0.45 max Mg 0.2-0.45 Ni 0.05 max	Zn 0.10 max Pb 0.05 max Sn 0.05 max Ti 0.15 max Al Bal	A13600	A03600			3.2381
AMP 901M	AlSi12	Al Alloy AlSi12 CL30AL	Al Oxide 0.8 max Cu 0.30 Fe 0.80 Mg 0.15	Mn 0.15 Si 11-13 Zn 0.20 Al Bal	A49047				3.2852

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