SUPERALLOY WELDING WIRES

Polymet Alloy	Tradename	Applicable Specifications			Nominal Composition																Process			Available Forms		Applications
		AMS	UNS	AWS	Ni	Co	Fe	Cr	W	Mo	Al	Si	Mn	Nb	Ti	Ta	Zr	C	Mg	Sn	Other	GTAW	GMAW	PTA	Solid Spooled	Solid Cut Length	
ALUMINUM, MAGNESIUM & TITANIUM BASE ALLOYS																										
P•Met 620	AZ 92A	4395	M11922	A5.19 EREZ33A	.005*		.005*				9.0								BAL		2.0Zn .0005Be	✔	✔	✔	✔	✔	Gearbox Housings
P•Met 621	EZ 33A	4396	M12331	A5.19 ERAZ92A													0.7		BAL		2.6Zn 3.2Re	✔	✔	✔	✔	✔	Gearbox Housings
P•Met 622	AZ101		M11101	A5.19 ERAZ101A	.005*		.005*				10.0	.05*	0.13*						BAL		1.0Zn 0.0005Be	✔	✔	✔	✔	✔	Gearbox Housings
P•Met 660	CP Titanium	4951	R50550				0.2*								BAL			.08*				✔		✔	✔	✔	Cold Section Components
P•Met 662	Ti 6-2-4-2	4952	R54621				0.1*			2.0	6.0	0.1*			BAL		4.0	.04*		2.0		✔		✔	✔	✔	Cold Section Components
P•Met 663	Ti 5Al 2.5Sn	4953	R54520	A5.16 ER Ti-5Al-2.5Sn-1			0.5*				5.0				BAL			0.10*		2.5		✔		✔	✔	✔	Cold Section Components
P•Met 664	Ti 6Al 4V	4954	R56400	A5.16 ER Ti-6Al-4V			0.3*				6.0				BAL			0.05*			4.0V	✔		✔	✔	✔	Cold Section Components
P•Met 665	Ti 8-1-1	4955	R54810	A5.16 ER Ti-8Al-1Mo-1V						1.0	8.0				BAL						1.0V	✔		✔	✔	✔	Cold Section Components
P•Met 667	Ti 6Al 4V	4956	R56402	A5.16 ER Ti-6Al-4V-1			0.15*				6.0				BAL			0.03*			4.0V	✔		✔	✔	✔	Cold Section Components
P•Met 688	4047	4185	A94047	A5.8 BAlSi-4			0.8*				BAL	12.0	0.15*									✔	✔	✔	✔	✔	Cold Section Components
P•Met 692	4043 Al	4190	A94043	A5.8 Class 4043			0.8*				BAL	5.2	0.05*		0.2*							✔	✔	✔	✔	✔	Cold Section Components
P•Met 693	357 Al	4246	A03570	A5.10 Class 357.0			0.15*				BAL	6.0	.03*		0.2*				0.5			✔	✔	✔	✔	✔	Cold Section Components
IRON BASE ALLOYS																										
P•Met 710	304 SS	5697	S30400		9.5		BAL	19.0		0.75*		1.0*	2.0*					0.08*				✔	✔	✔	✔	✔	Compressor & Turbine Components
P•Met 722	17-22 A(S)	6458	K23015		.25*		BAL	1.3		0.5		0.7	0.6					0.31				✔		✔	✔	✔	Compressor & Turbine Components
P•Met 730	316 SS	5692	S31680	A5.9 ER316	12.5		BAL	19.0		2.5		0.5	1.3					0.08*				✔	✔	✔	✔	✔	Compressor & Turbine Components
P•Met 741	321 SS	5689	S32100	A5.9 ER321	10.5		BAL	18.0		0.75*		0.7	2.0*		0.6			0.08*				✔	✔	✔	✔	✔	Compressor & Turbine Components
P•Met 742	Nitronic 40, 21-6-9	5656	S21904		6.5		BAL	20.3				1.0*	9.0					0.04*			0.27N	✔	✔	✔	✔	✔	Compressor & Turbine Components
P•Met 747	347 SS/18 8 NB	5680	S34781	A5.9 ER347	11 .0		BAL	18.5		0.75*		0.7	1.5			0.05*		0.07*				✔	✔	✔	✔	✔	Compressor & Turbine Components
P•Met 750	410 SS	5776	S41001		0.75*		BAL	12.0		0.50*	0.05*	1.0*	1.0*					0.12				✔	✔	✔	✔	✔	Compressor Casings
P•Met 751	410 SS	5821	S41001		0.75*		BAL	12.0		0.2*	0.05*	0.5*	0.6*					0.13				✔	✔	✔	✔	✔	Compressor Casings
P•Met 760	Jethete M190	5823	S41780		2.8	1.7	BAL	11.8		1.8		0.4*	0.9					0.13			0.3V	✔		✔	✔	✔	Compressor & Turbine Casings
P•Met 761	Greek Ascoloy	5817	S41800		2.0		BAL	13.0	3.0	0.5*	0.15*	0.5*	0.5*					0.18				✔		✔	✔	✔	Compressor & Turbine Casings
P•Met 762	A286	5804	S66286		25.5	1.0*	BAL	14.7		1.2	0.35*	1.0*	2.0*		2.2			0.08*			0.3V 0.007B	✔		✔	✔	✔	Compressor & Turbine Casings
P•Met 773	17 4 PH SS	5825	S17480	A5.9 ER630	4.7		BAL	16.4		0.75*		0.75*	0.5	0.2				0.05*			3.6Cu	✔	✔	✔	✔	✔	Compressor & Turbine Components
P•Met 774	17 4 PH SS VM	5803	S17480	A5.9 ER630	4.7		BAL	16.4		0.75*	0.05*	0.5*	0.5					0.05*			3.6Cu	✔	✔	✔	✔	✔	Compressor & Turbine Components
P•Met 775	15 5 SS	5826	S15500		4.5		BAL	14.8				1.0*	1.0*	0.3				0.07*			3.5Cu	✔	✔	✔	✔	✔	Compressor & Turbine Components
P•Met 776	AM 350	5774	S35080		4.5		BAL	16.5		2.9		0.5*	0.9					0.1			0.10N	✔		✔	✔	✔	Compressor & Turbine Components
P•Met 777	17 7 SS	5824	S17780		7.1		BAL	16.6			1.0	0.5*	1.0*					0.09*				✔	✔	✔	✔	✔	Compressor & Turbine Components
P•Met 778	15-7 SS VM	5812	S15789		7.1		BAL	14.6		2.4	1.0	0.5*	1.0*					0.09*				✔		✔	✔	✔	Compressor & Turbine Components
P•Met 794	N-155/Multimet	5794	R30155		20.0	19.8	BAL	21.3	2.5	3.0		1.0*	1.5	1.0		0.05*		0.10*			0.15N	✔		✔	✔	✔	Compressor & Turbine Components
NICKEL BASE ALLOYS																										
P•Met 800	Inconel 600	5687	N06600	A5.14 ERNiCrFe-3	BAL		8.0	15.5				0.5*	1.0*					0.15*				✔		✔	✔	✔	Hot Section Components
P•Met 818	Inconel 718	5832	N07718	A5.14 ERNiFeCr-2	BAL	1.0*	17.0	19.0		3.0	0.6	.35*	.35*	5.1	0.9			0.08*				✔		✔	✔	✔	Turbine Frames & Casings
P•Met 829	Incoloy 901 VIM/CE	5660	N09901		BAL	1.0*	33.2	12.5		6.0	0.35*	0.6*	1.0*		2.7			0.1*			0.015B	✔		✔	✔	✔	Knife Edge Seals
P•Met 830	Incoloy 901	5830	N09901		BAL	1.0*	33.2	12.5		6.0	0.35*	0.6*	1.0*		2.7			0.1*			0.015B	✔		✔	✔	✔	Knife Edge Seals
P•Met 831	Inconel FM 92	5675	N07092	A5.14 ERNiCrFe-6	BAL	1.0*	10.0*	15.5				0.35*	2.4		3.0			0.08*				✔	✔	✔	✔	✔	Hot Section Components
P•Met 832	Nichrome V, 80/20	5676	N06003		BAL	1.0*	0.5*	20.0				0.5*	1.0*					0.17				✔		✔	✔	✔	Hot Section Components
P•Met 833	Inconel FM 62	5679	N06062	A5.14 ERNiCrFe-5	BAL	1.0*	8.0	15.5				0.35*	1.0*	2.2				0.08*				✔	✔	✔	✔	✔	Hot Section Components
P•Met 834	Inconel X-750	5699	N07750		BAL		7.0	15.5			0.7	0.5*	1.0*	1.0	2.5			0.08*				✔		✔	✔	✔	Hot Section Components
P•Met 841	Rene 41	5800	N07041		BAL	11.0	5.0*	19.0		9.8	1.5	0.5*	0.1*		3.2			0.12*			0.007B	✔		✔	✔	✔	Combustors
P•Met 844	Inconel FM 69	5778	N07069	A5.14 ERNiCrFe-8	BAL	1.0*	7.0	15.5			0.7	0.5*	1.0*	1.0	2.4	.05*		0.08*				✔	✔	✔	✔	✔	Hot Section Components
P•Met 846	Nimonic 90	5829	N07090		BAL	18.0	3.0*	19.5			1.4	1.5*	1.0*		2.4			0.13*				✔		✔	✔	✔	Hot Section Components
P•Met 860	Inconel 625	5837	N06625	A5.14 ERNiCrMo-3	BAL	1.0*	5.0*	21.5		9.0	0.4*	0.5*	0.5*	3.6	0.4*			0.08*				✔	✔	✔	✔	✔	Turbine Blade Repairs
P•Met 863	C263	5872	N07263		BAL	20.0	0.7*	20.0		5.8	0.5	0.4*	0.6*		2.1			0.06				✔		✔	✔	✔	Turbine Frames & Casings
P•Met 865	Waspaloy	5828	N07001		BAL	13.5	2.0*	19.5		4.2	1.4	0.1*	0.1*		3.1			0.06			0.007B	✔		✔	✔	✔	Turbine Casings
P•Met 869	Hastelloy S	5838	N06635		BAL	2.0*	3.0*	15.7	1.0*	15.2	0.3	0.5	0.7					0.02*			0.05La	✔		✔	✔	✔	Hot Section Components
P•Met 870	Hastelloy W	5786	N10004	A5.14 ERNiMo-3	BAL	2.5*	5.5	5.0		24.5		1.0*	1.0*					0.12*				✔		✔	✔	✔	Hot Section Component Repairs
P•Met 875	Hastelloy X	5798	N06002	A5.14 ERNiCrMo-2	BAL	1.5	18.5	21.8	0.6	9.0		1.0*	1.0*					0.10				✔	✔	✔	✔	✔	Combustors
P•Met 882	Inconel FM 82	5836	N06082	A5.14 ERNiCr-3	BAL	0.12*	3.0*	20.0				0.5*	3.0	2.5	0.75*	0.3*		0.10*				✔	✔	✔	✔	✔	Hot Section Components
COBALT BASE ALLOYS																										
P•Met 905	L605	5796	R30605		10.0	BAL	3.0*	20.0	15.0			1.0*	1.5					0.10				✔		✔	✔	✔	Hot Section Components
P•Met 940	Ultimet		R31233		9.0	BAL	3.0	26.0	2.0	5.0								0.06				✔		✔	✔	✔	Hot Section Components
P•Met 988	HS188	5801	R30188		22.0	BAL	3.0*	22.0	14.5			0.4	1.25*					0.10			0.075La	✔		✔	✔	✔	Hot Section Components

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