



UNITED STATES WELDING CORPORATION



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USW** ALLOY
STOCK # DESIGNATION NOMINAL
COMPOSITION

(1) ALUMINUM ALLOYS

4181-C	4008 (A356)	7Si .38Mg Prem.
4184-C	4145	10Si 4Cu
4185-C	4047	12Si
4189-C	4643	4.1Si .2Mg
4190-C	4043	5.2Si
4191-C	2319	6.3Cu .3Mn .18Zr .15Ti .1V
4245-C	4009 (C355)	5Si 1.2Cu .5Mg Prem.
4246-C	357	7Si .55Mg .12Ti
1323-C	RR 250	5Cu 1Ni .25Mn .25Sb .25Co
1374-C	5356	5Mg .2Mn TiCr
1414-C	5183	5Mg .7Mn Cr

(2) MAGNESIUM ALLOYS

4350-C	AZ61A	6.5Al 1Zn
4395-C	AZ92A	9Al 2Zn
4396-C	EZ33A	3.3Ce 2.5Zn .7Zr
1308-C	AZ101A	10Al 1Zn

(3) TITANIUM ALLOYS

4914-C	15-3-3-3	15V 3Cr 3Sn 3Al
4951-C	C.P.	99Ti
4952-C	6-2-4-2	6Al 2Sn 4Zr 2Mo
4954-C	6-4	6Al 4V Std.
4955-C	8-1-1	8Al 1Mo 1V
4956-C	6-4 ELI	6Al 4V ELI

(4) NICKEL BASE ALLOYS - CORROSION & HEAT RESISTANT

5675-A*	TURBALOY 92	15.5Cr 7Fe 3Ti 2.4Mn
5679-A*	TURBALOY 62	15.5Cr 8Fe 2Cb
5778-A	TURBALOY 69	15.5Cr 2.4Ti 1Cb .7Al 7Fe
5786-A	TURBALOY W	5Cr 24.5Mo 5.5Fe
5798-A	TURBALOY X	22Cr 1.5Co 9Mo .6W 18.5Fe
5800-A*	TURBALOY 41	19Cr 11Co 10Mo 3.2Ti 1.5Al .006B
5828-V*	TURBALOY 685	19.5Cr 13.5Co 4Mo 3Ti 1.4Al .006B
5829-A	TURBALOY 90	19.5Cr 16.5Co 2.5Ti 1.5Al
5830-V* +	TURBALOY 901	12.5Cr 6Mo 2.7Ti 34Fe ELI
5832-V*	TURBALOY 718	19Cr 3Mo .9Ti 5.1Cb .5Al 18Fe
5836-A	TURBALOY 82	20Cr 2.5Cb 3.2Mn
5837-V*	TURBALOY 625	21.5Cr 9Mo 3.7Cb
5838-A	TURBALOY S	16Cr 15Mo .3Al .06La
5966-A*	TURBALOY 263	20Cr 20Co 6Mo 2.2Ti .45Al
8020-A	TURBALOY 80/20	20Cr
1507-A	TURBALOY 617	22Cr 12.5Co 9Mo 1Al
1622-V	TURBALOY 220	19Cr 12Co 3.2Mo 5Ti 1Ti 5Al

(5) COBALT BASE ALLOYS - CORROSION & HEAT RESISTANT

5385-A	TURBOCAST 21	27Cr 3Ni 5.5Mo .25C
5789-A	TURBALOY 31	25.5Cr 10.5Ni 7.5W 2.0Fe
5796-A*	TURBALOY 605	20Cr 10Ni 15W
5801-A*	TURBALOY 188	22Cr 22Ni 14.5W .07La
5814-V +	TURBALOY 918	20Cr 20Ni 7.5Ta
1515-V	TURBALOY 72	20Cr 15Ni 9W 1Hf 4.5Al 3Ta .2Ti .04Y
1674-A	TURBOCAST 694	28Cr 19.5W 5Ni 1V .05B .85C
1745-V	TURBALOY 414LC	29Cr 10Ni 7W
1799-A	TURBOCAST T-800	28Mo 17Cr 3Si

(6) IRON BASE ALLOYS - CORROSION & HEAT RESISTANT

5617-V	TURBALOY 455	12Cr 8.5Ni 2Cu 1.1Ti
5621-A	TURBALOY 420	13Cr .35C
5659-A*	TURBALOY 15-5	15Cr 4.5Ni .3Cb 3.5Cu
5680-A*	TURBALOY 347	18.5Cr 11Ni .4Cb HiSi
5689-A	TURBALOY 321	18Cr 9.5Ni .4Ti
5692-A	TURBALOY 316	19Cr 12.5Ni 2.5Mo .08Cmax
5694-A	TURBALOY 310	27Cr 21.5Ni
5763-V	TURBALOY 450	15Cr 6.5Ni .75Mo .3Cb .5Cu

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(6) IRON BASE ALLOYS (CONTINUED)

5774-V	TURBALOY 350	16.5Cr 4.5Ni 2.9Mo .1N
5776-A*	TURBALOY 410	12.5Cr .12C
5780-V	TURBALOY 355	15.5Cr 4.5Ni 2.9Mo .1N
5782-V +	TURBALOY 349	20.5Cr 9Ni 1.5W 1.2Cb .5Mo .2Ti
5784-A	TURBALOY 312	29Cr 9.5Ni
5794-A	TURBALOY 155	20Cr 20Ni 20Co 3Mo 2.5W 1Cb
5802-V +	TURBALOY 909	38Ni 14Co 4.8Cb 1.5Ti .2Al
5803-V* +	TURBALOY 17-4 VM	16.5Cr 4.8Ni .22Cb 3.6Cu
5804-A*	TURBALOY 286	15Cr 25.5Ni 1.3Mo 2.2Ti .006B .3V
5805-V* +	TURBALOY 286 VM	15Cr 25.5Ni 1.2Mo 2.1Ti .004B .3V ELI
5806-V +	TURBALOY 903	38Ni 15Co 3Cb 1.3Ti .7Al
5811-V +	TURBALOY 75	15Cr 30Ni 1.2Mo 2.2Ti ELI
5812-V +	TURBALOY 15-7 VM	15Cr 7Ni 2.4Mo 1Al
5817-A*	TURBALOY 418	13Cr 2Ni 3W
5818-A	TURBALOY 21-6-9	20Cr 6.5Ni 9Mn .27N
5821-V* +	TURBALOY 410 MOD	12.5Cr .13C Ferrite Control
5822-V* +	TURBALOY M190 VM	11.8Cr 2.8Ni 1.6Co 1.8Mo .32V ELI
5823-V* +	TURBALOY M190	11.8Cr 2.8Ni 1.6Co 1.8Mo .32V
5824-A	TURBALOY 17-7	17Cr 7Ni 1Al
5825-A*	TURBALOY 17-4	16.5Cr 4.8Ni .22Cb 3.6Cu
5826-V +	TURBALOY 15-5 VM	15Cr 5Ni .3Cb 3.2Cu
5840-A +	TURBALOY 13-8	13Cr 8Ni 2.3Mo 1.1Al
1436-A	TURBALOY 308L	20Cr 11Ni .03C max
1439-A	TURBALOY 309	24Cr 13Ni
1508-V	TURBALOY 520	14Cr 5.5Ni 1.5Cu 1.5Mo .4Cb

(7) LOW ALLOY STEELS

5030-A	TURBALOY 1006	.06C max
6375-V	TURBALOY 8620	.5Cr .55Ni .8Mn .2Mo .2C
6419-V	TURBALOY 300M	1.8Ni 1.6Si .82Cr .4Mo .08V .75Mn .43C
6452-V +	TURBALOY 4140	.95Cr .2Mo .4C
6453-V +	TURBALOY HT	1.3Mn 1.5Si .30Cr 1.8Ni .4Mo .25C
6456-V +	TURBALOY 4340	1.8Ni .8Cr .3Mo .4C
6457-V* +	TURBALOY 4130	.95Cr .20Mo .3C
6458-V*	TURBALOY 17-22	1.25Cr .65Si .5Mo .3V .3C
6459-V* +	TURBALOY 1212	1Cr 1Mo .12V .5Mn .75Si .2C
6461-V +	TURBALOY 6130	1Cr .2V .75Mn .3C
6469-V +	TURBALOY 140	1.8Mn 2.5Ni .8Cr .7Mo .4Si
0974-V +	TURBALOY 521	2.25Cr 1Mo .65Mn ELI
1398-V*	TURBALOY 702	1.2Mn .6Si .2Ti .07Zr .1Al
1407-C	TURBALOY 515	1.25Cr .5Mo
1580-V +	TURBALOY 100	1.8Ni .4Mo .4Si
1587-V +	TURBALOY 120	2Ni 1.6Mn .4Mo .4Si
1680-A*	TURBALOY 802	1.8Mn .5Mo .6Si

(8) HIGH ALLOY STEELS

6463-V +	TURBALOY 300	18.5Ni 8.5Co 5Mo .7Ti .1Al
6465-V +	TURBALOY 180	2Cr 10Ni 8Co 1Mo .02Al .06V .12C
6466-V	TURBALOY 502	5.2Cr .55Mo
6468-V +	TURBALOY 9-4-20	1Cr 10Ni 3.8Co .45Mo .08V .15C
6501-V	TURBALOY 250	18Ni 8Co 5Mo .4Ti .1Al
6524-V	TURBALOY 9-4-30	1Cr 7.5Ni 4.5Co 1Mo .09V .31C
6533-V +	TURBALOY AF1410	2Cr 10Ni 14Co 1Mo .15C
1615-V	TURBALOY T250	18.5Ni 3Mo 1.4Ti
1677-V +	TURBALOY 91	9Cr 1Mo
1739-V	TURBALOY 9-4-25	1Cr 9Ni 4Co .5Mo .08V .25C

(9) OTHER ALLOYS

1416-A	TURBALOY 67	70Cu 30NiTi
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Additional alloys available upon request.

+ Developed Alloy And/Or Specification
* Various Grades Available

** AMS Designation Used As Preliminary Alloy Number
V=MC; A=HQ; C=Commercial Suffix Designates Grade of Material

Manufacturers of MC-GRADE® and TURBALOY® Welding Wire for Aerospace / Defense / Energy Industries