



UNITED STATES WELDING CORPORATION

3579 HIGHWAY 50 EAST #104 CARSON CITY, NV 89701-2826
775/883-7878 800/423-5964 FAX: 775/883-7776

Website: www.usweldingcorp.com
EDI Capable



CROSS REFERENCE GUIDE

TYPICAL TURBINE WELDING ALLOYS
APPROVED BY G.E., P&W, AND ROLLS-ROYCE

<u>GENERIC ALLOY DESIGNATION</u>	<u>U.S. WELDING DESIGNATION</u>	<u>X-REFERENCE SPECIFICATION</u>
4043 Aluminum	4043 Al	AMS 4190, AWS A5.10, MSRR9500/32
2319 Aluminum	2319 Al	AMS 4191, AWS A5.10 MSRR9500/45
RR250 Aluminum	RR250 Al	MSRR9500/34
AZ92A Magnesium	AZ92A	AMS 4395, AWS A5.19, MSRR9500/51
EZ33A Magnesium	EZ33A	AMS 4396, AWS A5.19, MSRR9500/50
AZ101A Magnesium	AZ101A	AWS A5.19
C.P. Titanium	C.P. Ti	AMS 4951, AWS A5.16, MSRR9500/70
6Al-2Sn-4Zr-2Mo Titanium	6-2-4-2 Ti	AMS 4952, PWA 1222, MSRR9500/74
6Al-4V Titanium	6-4 Ti	AMS 4954, AWS A5.16, MSRR9500/73
6Al-4V ELI Titanium	6-4 ELI Ti	AMS 4956, AWS A5.16
INCONEL 92*	TURBALOY® 92	AMS 5675, AWS A5.14, MSRR9500/9
INCONEL 62*	TURBALOY® 62	AMS 5679, AWS A5.14, MSRR9500/206
INCONEL 69* (X-750)	TURBALOY® 69	AMS 5778, AWS A5.14, MSRR9500/209
HASTELLOY W**	TURBALOY® W	AMS 5786, AWS A5.14, MSRR9500/213
HASTELLOY X**	TURBALOY® X	AMS 5798, AWS A5.14, MSRR9500/215
RENE 41	TURBALOY® 41	AMS 5800, MSRR9500/241
WASPALOY	TURBALOY® 685	AMS 5828, MSRR9500/202
NIMONIC 90*	TURBALOY® 90	AMS 5829, MSRR9500/4
INCOLOY 901*	TURBALOY® 901	AMS 5660, AMS 5830, MSRR9500/227, PWA 1003
INCONEL 718*	TURBALOY® 718	AMS 5832, MSRR9500/220
INCONEL 82*	TURBALOY® 82	AWS A5.14, MSRR9500/216, MIL-E-21562 AMS 5836
INCONEL 625*	TURBALOY® 625	AMS 5837, AWS A5.14, MSRR9500/237, MIL-E-21562
HASTELLOY S**	TURBALOY® S	AMS 5838, MSRR9500/239
NIMONIC C263*	TURBALOY® 263	AMS 5872, MSRR9500/16, AMS 5966
NIMONIC 8020*	TURBALOY® 8020	MSRR9500/3

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GENERIC ALLOY DESIGNATION

INCONEL 617* ***

STELLITE 31***

L-605 (HAYNES 25)**

HAYNES 188**

MAR-M-918

MERL 72

Coast Metal 64

FSX414LC

15-5 Ph Stainless Steel

347 Stainless Steel

AM 350 Stainless Steel

410 Stainless Steel

AM 355 Stainless Steel

349 Stainless Steel VM

312 Stainless Steel

N-155 (MULTIMET)**

A286

410 Mod. Stainless Steel VM

JETHETE M190

17-4 Ph Stainless Steel (ER630)

4130 VM

17-22 A(S) VM

CROMOLOY

U.S. WELDING DESIGNATION

TURBALOY® 617

TURBALOY® 31

TURBALOY® 605

TURBALOY® 188

TURBALOY® 918

TURBALOY® 72

TURBOCAST™ 694

TURBALOY® 414LC

TURBALOY® 15-5

TURBALOY® 347

TURBALOY® 350

TURBALOY® 410

TURBALOY® 355

TURBALOY® 349

TURBALOY® 312

TURBALOY® 155

TURBALOY® 286

TURBALOY® 410 MOD

TURBALOY® M190

TURBALOY® 17-4

TURBALOY® 4130

TURBALOY® 17-22

TURBALOY® 1212

X-REFERENCE SPECIFICATION

AWS A5.14, PWA 1168

AMS 5789, MSRR9500/25

AMS 5796, MSRR9500/23

AMS 5801

AMS 5814, B50A824, PDS13256BB

PWA 795

PWA 694, B50TF55, MSRR9500/226
B50A842
B50A823

AMS 5826

AMS 5680 AWS A5.9, MSRR9500/2

AMS 5774

AMS 5776, AWS A5.9, MSRR9500/205

AMS 5780, MSRR9500/210

AMS 5782, MSRR9500/211

AMS 5784 AWS A5.9, MSRR9500/212

AMS 5794, MSRR9500/214

AMS 5804, AMS 5805 (VM), MSRR9500/233,
MSRR9500/234

AMS 5821

AMS 5823, AMS 5822 (VM), MSRR9500/10

AMS 5825, AMS 5803 (VM), MSRR9500/240,
AWS A5.9

AMS 6457

AMS 6458

AMS 6459, B50T41

* Registered TM of Special Metals Corporation.

** Registered TM of Haynes International

***Stellite® registered trademark of Deloro-Stellite

TURBALOY® Registered TM of United States Welding Corporation
TURBOCAST™ TM of United States Welding Corporation

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