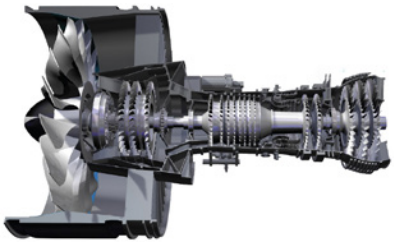
APPLICATION GUIDE

ChipCHECK – PW1100 | PW1500 | PW1900



The ChipCHECK alloy naming convention follows SAE standards which may differ from the Manual. This application guide is a cross reference between the ChipCHECK report and the PW1100, PW1500 and PW1900. This application guide is only applicable to ChipCHECKs with Material Library A027243 Rev C or equivalent. Please contact **support@gastops.com** to confirm unit compliance.

	ChipCHECK	PW1100, PW1500 and PW1900
Fe Base	1010	Plain Carbon Steel, AMS 7310 Iron Alloy (Cast Iron – 2.2% Si)
	8740	AMS 6322 ST. / SAE8740, AMS 6530, AMS 6323
	4130 / 52100	AMS 6370, AMS 6440
	15CDV6 (AIR)	AMS 6448
	4340	AMS 6414, AMS 6414 (AISI 4340), AMS 6415, AMS 6416, AMS 2412
	32CDV13 (AIR) / 30CD12 (AIR) / S-7 (AISI)	AMS 6481
	Nitralloy 135 Mod	AMS 6470, AMS 6471
	9310	AMS 6265
	35NCD16 (AIR)	N/A to this engine type
	Nitralloy N	AMS 6475
	H-13	N/A to this engine type
	6308	AMS 6308, Pyrowear
	M50	AMS 6491, M-50, PWA 793, AMS 6490
	400 Series	5613, AMS 5613 CRES., AMS 5613 CRES. (410 SS), AMS 5613 CRES., AMS 5613 ST., AMS 5616, AMS 5630
	M50 Nil	AMS 6278, M50 NIL, PWA 36140
	Jethete M152 (P)	AMS 5629 PWA 328
	15-5PH / 17-4PH	AMS 2615 Type 17-4PH, AMS 5343, AMS 5355, AMS 5604, AMS 5622, AMS 5643 CRES, AMS 5659
	AM-350	AMS 5548 / 5774 / 5554 / 5546
	17-7 PH	AMS 5529 SST. (17-7PH), AMS 5678 SST
	300 Series	304 SS., AMS 5362 SST., AMS 5510 CRES., AMS 5510 SST., AMS 5512 SST, AMS 5639, AMS 5645 ST. / 321 SS., AMS 5646, AMS 5688 (301SS), AMS 5689 Heat Resistant CRES., AMS 7245, AMS 7330, CRES. 304 AMS-QQ-S-763, CRES. Type 304 (UNS S30400) per AS7245, AMS 5515, AMS 5516, AMS 5517, AMS 5518
	Maraging 250 (P)	AMS 6525
	Alloy No. 42 (P)	Alloy 42
	A286	A286, AMS 5731, AMS 5731 (CRES. Type 302), AMS 5732, AMS 5732-STL (A286), AMS 5737, Heat resistant CRES. per AMS 5735
	ALNICO 5 (P)	N/A to this engine type
Al Base	6061	AMS 4027, AMS 4117, AMS 4127
	2024	AMS 4037, AMS 4120, AMS 4152
	2219	AMS 4031, AMS 4143, AMS 4313, AMS 4163, AMS 4066, AMS 4144, AMS 4162
	2618	AMS 4132
	C355.0 / 356.0 / 357.0	AMS 4215
	7075	AMS 4016
Ni Base	Waspalloy	Waspalloy
	Inconel 718	AMS 5596 NI Alloy, AMS 5662 NI Alloy, AMS 5663, AMS 5663 (IN718), IN718
	Hastelloy X	AMS 5536, AMS 5587, AMS 5754, AMS 7237, AMS 5798, AMS 5390
	Inconel 625	AMS 5401, AMS 5402
	Inconel X750	AMS 5542, AMS 5582, AMS 5598, AMS 5667, AMS 5668, AMS 5670, AMS 5671, AMS 5698, AMS 5699
	Nickel	Electroless Nickel Plate - PWA 36
Ti Base	Ti 6-4	AMS 4911 Ti Alloy, AMS 4928, AMS 4928 Ti Alloy, PWA 1228 Ti Alloy, Ti6Al4V
	Ti 6-2-4-6	AMS 4976 Ti Alloy, Ti6-2-4-2
Cu Base	Copper	AMS 4590, AMS 4616 Forged Silicon Bronze
	CDA443 (CDA)	Brass
Co Base	L-605	AMS 5537, AMS 5759, AMS 5796, AMS 7236
	Elgiloy	MP159
Ag Base	Silver	AMS 2412

Disclaimer: The analyzed wear debris is reported by ChipCHECK as the nearest matched alloy classification per ASTM D8182-18. Any analyzed wear debris that could not be classified by ChipCHECK is reported as "Unclassified". Note that unclassified results do not necessarily constitute that the sample is in absence of the materials included in the configured material library. An unclassified result may be due to an inadequate spectra collected from the particles, which can be mitigated by following the procedures outlined in the user manual. All results reported by ChipCHECK are subject to the proper use, operation, and maintenance of the device in compliance with the defined requirements in user manual C009802.

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