



HIGH PERFORMANCE ALLOYS DATABASE (HPAD)

GRADE UNS

STAINLESS STEELS

Austenitic & Nickel Chromium

19-9DL	J92843/K63198/K63199
20Cb-3 [®] , INCOLOY [®] 20	N08020
20Mo-6 [®] HS	N08036
21Cr-6Ni-9Mn	S21904
22Cr-13Ni-5Mn, NITRONIC [®] 50	S20910
254 SMO	S31254
654 SMO	S32654
904L	N08904
AL-6XN [®]	N08367/J94651
Datalloy 2 [®] , 15-15 HS & LC, SCF 260	None
HAYNES [®] HR-120 [®]	N08120
INCOLOY [®] 28	N08028
INCOLOY [®] 800	N08800
INCOLOY [®] 800H	N08810
INCOLOY [®] A-286	K66286/S66286
N-155	R30155
NITRONIC [®] 60	S20162/S21800
Type 201	S20100
Type 310/310S	S31000
Type 321	S32100
Types 301 & 302	S30100/S30200/S30430
Types 303/303 Se	S30300/S30323
Types 304/304L	S30400/S30403
Types 316 & 317	S31600/S31603 & S31700/S31703
Types 347 & 348	S34700/S34800

Martensitic

9Cr-1Mo	S50400
F6NM, 1.4313	S41500
Types 403, 410 & 416	S40300/S41000/S41600
Type 420	S42000

Precipitation Hardening

15-5PH	J92100/S15500
17-4PH	S17400
17-7PH	S17700
Custom 455 [®]	S45500
Custom 465 [®]	S46500
PH13-8Mo	S13800

Duplex

Lean duplex family 2202, 2003, 2304, 2102	S32202/S32003/S32304/S82011
2205	S31803/S32205
2507, Zeron 100	S32750/S32760
FERRALLIUM [®] 255	S32550

Ferritic

AL 29-4C	S44735
430	S43000
INCOLOY [®] MA 956	S67956

GRADE UNS

NICKEL AND COBALT ALLOYS

ATI 718Plus [®]	N07818
Custom Age 625 Plus [®]	N07716
HASTELLOY [®] B-3 [®]	N10675
HASTELLOY [®] C-2000 [®]	N06200
HASTELLOY [®] C-22HS [®]	N07022
HASTELLOY [®] C-276	N10276
HASTELLOY [®] X	N06002
HAYNES [®] 188	R30188
HAYNES [®] 230 [®]	N06230
HAYNES [®] 242 [®]	N10242
HAYNES [®] 263	N07263
HAYNES [®] 282 [®]	N07208
HAYNES [®] G-35 [®]	N06035
HAYNES [®] HR-160 [®]	N12160
INCOLOY [®] 825	N08825
INCOLOY [®] 901	N09901
INCOLOY [®] 925	N09925
INCONEL [®] 600	N06600
INCONEL [®] 601	N06601
INCONEL [®] 617	N06617
INCONEL [®] 625	N06625
INCONEL [®] 690	N06690
INCONEL [®] 706	N09706
INCONEL [®] 718	N07718
INCONEL [®] 783	R30783
INCONEL [®] X-750	N07750
L-605, HAYNES [®] 25	R30605
MONEL [®] K-500	N05500
MP35N [®]	R30035
NIMONIC [®] 80A	N07080
UDIMET [®] 720	N07720
WASPALOY [®]	N07001

ZIRCONIUM

702, 705	R60702/R60705
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ADDITIVE MANUFACTURING

AlSi10Mg	A13600/A13601/A13602
Titanium 6Al-4V	R3400/R56400/R56401

GRADE UNS

MAGNESIUM ALLOYS

Wrought

AZ31A, C & D	M11311/M11312
AZ31B	M11311/M11312
ZK60A	M16600

Cast

AZ91	M11910
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ALUMINUM ALLOYS

Wrought

2014 & Clad 2014	A92014
2024	A92024
2024 Clad	A92024
2219 & Clad 2219	A92219
2519	A92519
2618	A92618
5059	A95059
5083	A95083
5456	A95456
6061	A96061
7050	A97050
7075 & Clad 7075	A97075
7129/7029	A97129

Cast

A201	A02010
A357	A13570
355/C355/A355	A03550/A33550/A13550
356/A356	A03560/A13560
380	A13380
390	A13390

HIGH STRENGTH STEELS

18Ni Maraging (250 Grade)	K92890/K92940
18Ni Maraging (300 Grade)	K93120/K93160
4130	G41300
4140	G41400/J14046
4330V	J23260/K23080
4340	G43400
8630	G86300/J13042/J13050
H-11 Mod	T20811
H-13	T20813

TITANIUM ALLOYS

3Al-2.5V	R56320
6-2-4-6	R56260
6Al-4V	R56400
6Al-4V/Cast	R56400/R56401
48-2-2	None
Commercially Pure	R50250/R50400/R50550/R50700