



## HIGH PERFORMANCE ALLOYS DATABASE (HPAD)

### GRADE UNS

#### STAINLESS STEELS

##### Austenitic

19-9DL	J92843/K63198/K63199
20Cb-3 <sup>®</sup> , INCOLOY <sup>®</sup> 20	N08020
20Mo-6 <sup>®</sup> HS	N08036
21Cr-6Ni-9Mn	S21904
22Cr-13Ni-5Mn, NITRONIC <sup>®</sup> 50	S20910
254 SMO	S31254
654 SMO	S32654
904L	N08904
AL-6XN	N08367
Datalloy 2 <sup>®</sup> , 15-15 HS & LC, SCF 260	None
INCOLOY <sup>®</sup> 28	N08028
INCOLOY <sup>®</sup> 800	N08800
INCOLOY <sup>®</sup> 800H	N08810
INCOLOY <sup>®</sup> A-286	K66286/S66286
NITRONIC <sup>®</sup> 60	S20162/S21800
Type 201	S20100
Types 301 & 302	S30100/S30200/S30430
Types 303/303 Se	S30300/S30323
Types 304/304L	S30400/S30403
Type 310/310S	S31000
Types 316 & 317	S31600/S31603 & S31700/S31703
Type 321	S32100
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 <sup>®</sup>	S45500
Custom 465 <sup>®</sup>	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 <sup>®</sup> 255	S32550

### GRADE UNS

#### STAINLESS STEELS (continued)

##### Ferritic

AL 29-4C	S44735
430	S43000
INCOLOY <sup>®</sup> MA 956	S67956

#### NICKEL AND COBALT ALLOYS

ATI 718Plus <sup>®</sup>	N07818
Custom Age 625 Plus <sup>®</sup>	N07716
HASTELLOY <sup>®</sup> B-3 <sup>®</sup>	N10675
HASTELLOY <sup>®</sup> C-22HS <sup>®</sup>	N07022
HASTELLOY <sup>®</sup> C-276	N10276
HASTELLOY <sup>®</sup> C-2000 <sup>®</sup>	N06200
HASTELLOY <sup>®</sup> X	N06002
HAYNES <sup>®</sup> 188	R30188
HAYNES <sup>®</sup> 230 <sup>®</sup>	N06230
HAYNES <sup>®</sup> 242 <sup>®</sup>	N10242
HAYNES <sup>®</sup> 263	N07263
HAYNES <sup>®</sup> 282 <sup>®</sup>	N07208
HAYNES <sup>®</sup> G-35 <sup>®</sup>	N06035
HAYNES <sup>®</sup> HR-120 <sup>®</sup>	N08120
HAYNES <sup>®</sup> HR-160 <sup>®</sup>	N12160
INCOLOY <sup>®</sup> 825	N08825
INCOLOY <sup>®</sup> 901	N09901
INCOLOY <sup>®</sup> 925	N09925
INCONEL <sup>®</sup> 601	N06601
INCONEL <sup>®</sup> 617	N06617
INCONEL <sup>®</sup> 625	N06625
INCONEL <sup>®</sup> 690	N06690
INCONEL <sup>®</sup> 706	N09706
INCONEL <sup>®</sup> 718	N07718
INCONEL <sup>®</sup> 783	R30783
INCONEL <sup>®</sup> X-750	N07750
L-605, HAYNES <sup>®</sup> 25	R30605
MONEL <sup>®</sup> K-500	N05500
MP35N <sup>®</sup>	R30035
N-155	R30155
NIMONIC <sup>®</sup> 80A	N07080
UDIMET <sup>®</sup> 720	N07720
WASPALOY <sup>®</sup>	N07001

#### ZIRCONIUM

702, 705	R60702/R60705
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### 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	A13550
356	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