



YOUR BEST PARTNER

NICKEL / TITANIUM / PERMALLOY / NICKEL ALLOY / SPECIAL METAL / STAINLESS STEEL



에이치엠제이

PURE NICKEL

Material Type	UNS No	Chemical Composition (%)			Mechanical Properties		
		Ni	C	Others	인장강도 1000Psi (Mpa)	항복강도 1000Psi(Mpa) at 0.2% offset	경도 Brinell (Rock well)
Nickel 200	N02200	99.6	0.15 MAX	-	55-80 (380-550)	15-30 (100-210)	90-120
Nickel 201	N02201	99.6	0.02 MAX	-	55-80 (380-550)	15-30 (100-210)	90-120

PERMALLOY

Material Type	Chemical Composition (%)					
	Ni	Mo	Cu	Mn	Fe	others
Permalloy78(Std)	78.50	-	-	-	21.50	-
Permalloy4-79MO	79.00	4.00	-	0.30	16.70	-
Permalloy B	46.00	-	-	-	Bal	-
Permalloy C	48.00	4.00	5.00	-	13.00	-
Permalloy D	36.00	-	-	-	Bal	-
Permalloy F	65.00	-	-	-	35.00	-
Permanickel	98.60	-	-	-	16.70	C : 0.25 Al : 0.50 Mg : 0.35

INVAR

Material Type	UNS No	Chemical Composition (%)			열전도도	
		Ni	Fe	Others	70 °F (20°C)	1500 °F (815°C)
Alloy 36 Invar	K93601	36	64	-	69.3-10	-

KOVAR

Material Type	UNS No	Chemical Composition (%)				열전도도	
		Ni	Cr	Fe	Co	70 °F (20°C)	1500 °F (815°C)
Alloy K Kovar	K94610	29.5	0.21	53	17	116-16.7	-

MONEL

Material Type	UNS No	Chemical Composition (%)			열전도도	
		Ni	Cu	Others	70 °F (20°C)	1500 °F (815°C)
Monel Alloy 400	N04400	66.5	31.5	-	151 -21.8	323 -46.6
Monel Alloy K-500	N05500	66.5	29.5	Al 2.7 Ti 0.6	121 -17.4	272 -39.2

SPECIAL METALS

TITANIUM / MOLYBDENUM / VANADIUM etc.

INCONEL

Material Type	UNS No	Chemical Composition (%)				Mechanical Properties		
		Ni	Cr	Fe	Others	인장강도 1000Psi (Mpa)	항복강도 1000Psi(Mpa) at 0.2% offset	경도 Brinell (Rock well)
Inconel 600	N06600	79	15.5	8	-	80-100 (550-690)	30-50 (210-340)	120-170
Inconel 601	N06601	60.5	23	14	Al 1.4	55-80 (380-550)	15-30 (100-210)	110-150
Inconel 625	N06625	61	21.5	Bal	Mo 9 Nb+Ta3.6	80-115 (550-790)	80-115 (550-790)	180
Inconel 718	N07718	52.5	19	18.5	Mo 3 Nb+Ta5.1	80-115 (550-790)	80-115 (550-790)	382
Inconel 725	N07725	57	21	-	Mo 8.5	124	62	-
Inconel X-750	N07750	73	15.5	7	Ti 2.5 Al 0.7 Nb+Ta1.0	80-115 (550-790)	80-115 (550-790)	300-390
Incoloy 800	N08800	32.5	21	46		80-115 (550-790)	80-115 (550-790)	120-184
Incoloy 825	N08825	42	21.5	30	Cu 2.2 Mo 3	80-115 (550-790)	80-115 (550-790)	100-184
Incoloy 925	N09925	44	21	22 Min	Mo 3	99.3 -685	39.3 -271	-

HASTELLOY

Material Type	UNS No	Chemical Composition (%)										
		Ni	Co	Cr	W	Fe	C	Si	Mo	Mn	Cu	Others
Hastelloy B2	N10665	Bal	1.00	1.00	-	2.00	0.01	0.01	28.00	1.00	-	-
Hastelloy B3	N10675	Bal	3.00	1.50	3.00	-	-	-	28.50	3.00	-	-
Hastelloy C22	N06022	Bal	2.50	22.00	3.00	-	0.01	-	13.00	-	-	-
Hastelloy C276	N10276	Bal	2.50	15.00	4.10	5.50	0.01	-	16.00	1.00	-	-
Hastelloy C4	N06455	Bal	2.00	16.00	-	3.00	0.01	-	15.50	1.00	-	Ti 0.7
Hastelloy G	N06007	Bal	2.50	22.00	1.00	19.50	-	1.00	6.50	1.50	2.00	Cb+Ta2
Hastelloy G3	N06985	Bal	5.00	22.00	1.50	18-20	0.02	1.00	6.80	1.00	1.5-2	-
Hastelloy G30	N06030	Bal	5.00	29.00	2.50	15.00	-	1.00	5.00	2.00	1.70	-
Hastelloy X	N06002	Bal	1.50	22.00	0.60	18.50	0.01	1.00	9.00	100	-	Ti0.15 Al 0.5

STAINLESS STEEL

Material Type	Equivalent		Chemical Composition					
	UNS	Din	C	N	Cr	Ni	Mo	Others
DUPLEX-SAF 2304	S32304	1.4362	0.02	0.10	23	4.5	-	-
DUPLEX-SAF 2205	S31803 S32205	1.4462	0.02	0.17	22	5.50	3.00	-
DUPLEX-SAF 2507	S32750	1.441	0.02	0.27	25.00	7.00	4.00	-
HIGH-Nickel alloy Austenitics 904L	N08904	1.4539	0.01	0.06	20.00	25.00	4.50	Cu
254 SMO	S31254	1.4547	0.01	0.20	20.00	18.00	6.00	Cu
Alloy926	N08926		0.01	0.20	21.00	24.00	6.00	Cu
AL-6XN	N08367		0.02	0.20	21.00	24.00	6.00	Cu
654 SMO	S32654	1.4652	0.01	0.50	24	22	7.3	Mn Cu



주요 취급품목

니켈	NICKEL
티타늄	TITANIUM
퍼말로이	PERMALLOY
니켈합금강	NICKEL ALLOY
특수금속	SPECIAL METAL
스테인레스	STAINLESS STEEL

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