



UNITED[®] PM
(THAILAND) CO., LTD.

“ยูไนต์ค
อดลอย”

“Simply
the
Best”
Alloys



Be insured in Quality
Be insured in Service
Be insured in “United Alloys”

ALLOYS • GRAINS • WIRE • SOLDER • SHEET

SIZING STOCK, WIRE, SHEET & TUBING

Most products are available in 10k, 14k, & 18k yellow, white, red, green, sterling silver, fine silver, palladium & platinum, 14k & 18k w/Palladium.

Product conversion: 18 GA = 1MM = .040 inches.

To convert (inch) to MM divided by .04.

Square tubing, step bezel and bezel strip are also available.

SMALL DIAMETER WIRE

Gold/Platinum 36" Min. - Silver 1 t/oz. min.

Approximate weight per foot in DWT

GA	MM	INCH	10K	14K	18K	Platinum	Sterling
25	.46	.018	.35	.42	.50	.70	-
26	.41	.016	.30	.33	.40	.50	.26
27	.36	.014	.23	.26	.31	.40	-
28	.32	.013	.18	.21	.25	.34	.16
29	.29	.011	.15	.16	.20	.27	-
30	.26	.010	.11	.13	.15	.21	.10

FLAT

Many other sizes available

Approximate weight per foot in DWT

MM	10K	14K	18K
8 x 2	36.36	42.50	48.60
8 x 1.5	27.35	30.90	36.85
8 x 1	18.55	20.90	24.95
7 x 2	32.55	35.70	41.45
7 x 1.5	24.70	28.00	32.30
7 x 1	16.40	18.05	21.75
6 x 2	27.05	30.10	36.80
6 x 1.5	20.20	22.80	27.50
6 x 1	13.55	14.95	19.10
5 x 2	22.40	25.15	31.00
5 x 1.5	17.00	18.75	23.00
5 x 1	11.30	12.35	15.40
4 x 1.5	13.65	15.15	18.15
4 x 1	9.00	10.00	11.95
3 x 1.5	10.10	11.40	13.25
3 x 1	6.75	7.60	8.95
2 x 1.5	6.70	7.35	8.50
2 x 1	4.45	4.95	6.20
1.5 x 1	3.30	3.75	4.20

SHEET / PLATE

Approximate weight per square inch in DWT

GA	MM	INCH	10K	14K	18K	Sterling
8	3.20	.128	15.70	17.70	20.70	14.02
9	2.85	.114	13.90	15.70	18.72	12.48
10	2.55	.102	12.40	14.00	16.70	11.18
11	2.27	.091	11.10	12.53	14.94	9.96
12	2.00	.080	9.86	11.10	13.30	8.76
13	1.80	.072	8.78	9.91	11.82	7.88
14	1.60	.064	7.82	8.82	10.50	7.02
-	1.50	.060	7.26	8.28	9.44	6.39
15	1.42	.057	6.95	7.85	9.36	6.24
16	1.27	.051	6.22	7.00	8.36	5.58
17	1.12	.045	5.52	6.24	7.44	4.92
18	1.00	.040	4.92	5.56	6.62	4.38
19	.90	.036	4.39	4.96	5.91	3.94
20	.80	.032	3.90	4.40	5.26	3.50
21	.70	.028	3.41	3.86	4.60	3.06
22	.62	.025	3.10	3.50	4.16	2.74
23	.55	.022	2.68	3.03	3.61	2.40
24	.50	.020	2.46	2.78	3.30	2.20
25	.42	.017	2.20	2.48	2.96	1.64
26	.37	.015	1.94	2.20	2.62	1.64
27	.35	.014	1.71	1.93	2.30	1.53
28	.30	.012	1.54	1.74	2.08	1.46
29	.27	.011	1.34	1.52	1.81	1.20
30	.25	.010	1.22	1.38	1.66	1.12

SQUARE

Approximate weight per foot in DWT

MM	10K	14K	18K
6 x 6	83.26	94.98	109.72
5 x 5	58.04	64.88	74.24
4 x 4	34.40	39.40	44.80
3.5 x 3.5	27.55	31.40	37.00
3 x 3	20.70	22.25	26.80
2.5 x 2.5	13.20	16.00	18.70
2 x 2	8.60	9.95	11.80
1.5 x 1.5	4.95	5.65	6.65
1 x 1	2.25	2.50	3.70
.75 x .75	1.30	1.45	1.65

HALF ROUND

Many other sizes available

Approximate weight per foot in DWT

MM	10K	14K	18K
8 x 2	27.20	30.60	35.30
8 x 1.5	20.25	22.80	26.30
7 x 3	37.40	45.20	50.15
7 x 2	24.30	27.40	32.00
7 x 1.5	16.60	19.80	22.90
6 x 2	20.85	24.55	29.05
6 x 1.5	16.20	18.25	21.50
5 x 2	18.40	21.15	23.35
5 x 1.5	13.90	15.00	19.35
4 x 2	15.85	17.25	19.45
4 x 1.5	11.35	12.70	15.25
3 x 2	11.80	12.50	14.55
3 x 1.5	8.80	9.85	12.55
2 x 1.5	6.10	6.85	8.65
2 x 1	3.85	4.55	4.95
1.5 x 1	3.30	3.80	5.10

ROUND TUBING

Min. 3" / Max. 24"

Approximate weight per foot in DWT

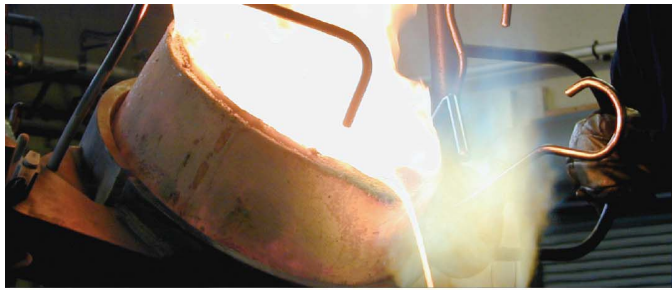
Wall Thickness Order Number	O.D. MM/Inch	I.D. MM/Inch	14k DWT/FT	Insert Wire
Light .010" - 30 GA				
3.13 L	3.13 / .123"	2.63 / .103"	5.95	10 GA
2.85 L	2.85 / .112"	2.35 / .093"	5.55	12 GA
2.55 L	2.55 / .098"	2.00 / .079"	4.45	13 GA
2.25 L	2.25 / .089"	1.75 / .069"	4.10	14 GA
2.05 L	2.05 / .079"	1.50 / .059"	3.50	15 GA
1.80 L	1.80 / .071"	1.30 / .051"	3.25	17 GA
1.60 L	1.60 / .063"	1.15 / .045"	2.85	18 GA
1.43 L	1.43 / .056"	.90 / .035"	2.50	20 GA
1.25 L	1.25 / .049"	.75 / .030"	2.10	21 GA
1.13 L	1.13 / .044"	.63 / .025"	1.75	23 GA
1.00 L	1.00 / .039"	.50 / .020"	1.60	25 G
Medium .015" - 26 GA				
5.80 M	5.80 / .228"	5.00 / .197"	17.25	5 GA
4.80 M	4.80 / .189"	4.00 / .157"	14.50	7 GA
3.75 M	3.75 / .150"	3.05 / .120"	11.20	9 GA
3.30 M	3.30 / .130"	2.50 / .098"	9.00	11 GA
Heavy .020" - 24 GA				
3.13 H	3.13 / .123"	2.13 / .084"	11.05	12 GA
2.85 H	2.85 / .112"	1.85 / .073"	9.75	14 GA
2.50 H	2.50 / .098"	1.50 / .059"	8.05	15 GA
2.25 H	2.25 / .089"	1.25 / .049"	7.45	17 GA
2.00 H	2.00 / .079"	1.00 / .039"	6.05	19 GA

ROUND

Approximate weight per foot in DWT

GA	MM	INCH	10K	14K	18K
2	6.42	.257	76.50	86.10	99.30
3	5.72	.229	61.65	69.40	80.05
4	5.10	.204	46.80	56.60	67.25
5	4.52	.181	41.70	46.95	54.15
6	4.05	.162	30.75	34.70	40.10
7	3.60	.144	24.50	27.10	32.20
8	3.20	.128	17.85	21.15	25.35
9	2.85	.114	15.15	17.20	20.30
10	2.55	.102	11.80	13.50	15.90
11	2.27	.091	9.40	10.60	12.70
12	2.00	.080	7.35	8.75	10.00
13	1.80	.072	6.05	6.80	7.95
14	1.60	.064	4.70	5.20	6.00
-	1.50	.060	4.17	4.72	5.63
15	1.42	.057	3.80	4.30	4.90
16	1.27	.051	3.20	3.65	4.35
17	1.12	.045	2.55	2.75	3.30
18	1.00	.040	1.95	2.05	2.50
19	.90	.036	1.55	1.60	2.00
20	.80	.032	1.15	1.35	1.55
-	.75	.030	1.03	1.18	1.38
21	.70	.028	.90	1.00	1.20
22	.62	.025	.75	.85	.95
23	.55	.022	.60	.70	.80
24	.50	.020	.45	.50	.55





INVESTMENT CASTING MASTER ALLOYS

9K-14K YELLOW GOLD CASTING ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Application	Special Comments
# 100	# 200	Bright Yellow	9-14K	Casting	High reusability, for open systems
# 104	# 204	Standard Yellow	9-14K	Casting	High reusability, for enclosed machines
# 110	# 210	Standard Yellow	9-14K	Casting	For low weight applications
# 120	# 220	Standard Yellow	9-14K	Casting	High reusability, for open systems
# 130	# 230	Standard Yellow	9-14K	Casting	Low zinc, High reusability
# 231	# 231	Standard Yellow	9-14K	Casting	Low De-Ox version of # 130 / # 230
# 132	# 232	Dark Yellow	9-14K	Casting	High performance, stone-in-place
# 140	# 240	Tint of Greenish Yellow	9-14K	Casting	High tarnish resistance & reusability
# 141	# 241	Rich Yellow	9-14K	Casting	Low zinc, high performance alloy
# 160	# 260	Light Greenish Yellow	9-14K	Casting	High reusability, European 3 N Color
# 163	# 263	Greenish Yellow	14K	Casting	European 3 N Color
# 164	# 264	Greenish Yellow	9-14K	Casting	High reusability, European 3 N Color
# 165	# 265	European Yellow	9-14K	Casting	European 3 N Color, High tarnish resistance
# 169	# 269	Greenish Yellow	9-14K	Casting	High performance, stone-in-place
# 170	# 270	Light Yellow	9-14K	Casting	Good wearability, tarnish resistant
# 178	# 278	Greenish Yellow	9-14K	Casting	High fluidity & tarnish resistant, stone-in-place
# 180	# 280	Rich Yellow	9-14K	Casting	Stone-in-place, high reusability & tarnish resistant
# 185	# 285	Rich Reddish Yellow	9-14K	Casting	Stone-in-place, high reusability & tarnish resistant
# 190	# 290	Rich Yellow	9-14K	Casting	High performance, high reusability, tarnish resistant
# 821	# 821	Light Yellow	9-14K	Casting	Grain refined, hard, high surface luster
# 823	# 823	Medium Yellow	9-14K	Casting	Cobalt based hard alloy
# T-1	# T-1	Greenish Yellow	9-14K	Casting	Low weight, good tarnish resistance
# T-3	# T-3	Greenish Yellow	9-14K	Casting	Low weight, high reusability, tarnish resistant

9K-14K YELLOW GOLD CASTING ALLOYS (SPECIAL PURPOSE)

THAI Code	U.S.A. Code	Color	Recom. Karat	Application	Special Comments
# 191	# 291	Rich Yellow	9-18K	All Purpose	Yellow hard-spring "ping-tong"
# 720	# 320	Standard Yellow	9-18K	All Purpose	Yellow hard-spring "ping-tong"
# 442	# 742	Standard Yellow	18K	All Purpose	No zinc, enameling

9K-14K YELLOW GOLD ULTRALOY CASTING SERIES

THAI Code	U.S.A. Code	Color	Recom. Karat	Application	Special Comments
# UA1	# UA1	Rich Reddish Yellow	9-14K	Casting	High performance, high reusability high tarnish resistance, stone-in-place
# UA2	# UA2	Standard Yellow	9-14K	Casting	

9K-14K YELLOW GOLD VERY HIGH FLUIDITY CASTING ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Application	Special Comments
# VHF1	# VHF1	Light Greenish Yellow	9-14K	Casting	High fluidity for delicate filigree designs & stone-in-place. Stone-in-place, high reusability & tarnish resistant High tarnish resistance, good fluidity & reusability
# VHF2	# VHF2	Standard Yellow	9-14K	Casting	
# VHF10	# VHF10	Greenish Yellow	9-14K	Casting	
# VHF3	# VHF3	Tint of Greenish Yellow	9-14K	Casting	
# VHF4	# VHF4	Greenish Yellow	9-14K	Casting	

9K-14K YELLOW GOLD CENTRIFUGAL & HAND POURING CASTING SYSTEMS

THAI Code	U.S.A. Code	Color	Recom. Karat	Application	Special Comments
# 200	# 400	Greenish Yellow	9-14K	Casting	No fire-scale, high reusability, tarnish resistant
# 240	# 440	Standard Yellow	9-14K	Casting	Open melting, High reusability & tarnish resistance
# 250	# 450	Tint of Greenish Yellow	9-14K	Casting	Open melting, High reusability, European 3N Color
# 285	# 485	Reddish Yellow	9-14K	Casting	Low silver & tarnish resistant
	# 630	Reddish Yellow	9-14K	Casting	High de-ox, high reusability & fluidity

18K YELLOW GOLD CASTING ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Application	Special Comments
# 715	# 315	Bright Yellow	18K	All Purpose	Excellent for casting & fab., European 3N Color
# 413	# 713	Bright Yellow	18K	Casting	Excellent workability, high luster
# 416	# 716	Italian Yellow	18K	All Purpose	Excellent workability
# 420	# 720	Rich Yellow	18K	Casting	Smooth surface, high luster
# 425	# 725	Rich Yellow	18K	All Purpose	Same color as # 420 / # 720

# 430	# 730	Standard Yellow	18K	All Purpose	European color
# 440	# 740	Pale Light Yellow	18K	All Purpose	High tarnish resistance, high luster
# 460	# 760	Green Yellow	18K	Casting	Low De-Ox, High fluidity
# 465	# 765	Green Yellow	18K	All Purpose	Same color as # 460 / # 760
# 480	# 780	Light Greenish Yellow	18K	Casting	Suitable for enameling
# 482	# 782	Light Yellow	18K	All Purpose	High tarnish resistance, good reusability
# 490	# 790	Deep Yellow	18K	All Purpose	Lox De-ox, High fluidity
# NA490	# NA790	Deep Yellow	18K	All Purpose	High fluidity version of # 490 / # 790
# 492	# 792	Deep Yellow	18K	Casting	Tarnish resistance version of # 490 / # 790
# 494	# 794	Hamilton Yellow	18K	Casting	High Surface Luster & Scratch resistant

18K-22K YELLOW GOLD CASTING ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Application	Special Comments
# 781	# 381	Reddish Yellow	18-22K	All Purpose	UA 1 version for higher karat application
# 784	# 384	Dark Yellow	20-22K	Casting	Very hard, high fluidity
# 785	# 385	Dark Yellow	20-22K	All Purpose	For making chains
# 787	# 387	Standard Yellow	20-22K	All Purpose	User-friendly, hard with excellent surface luster
# 789	# 389	Bright Yellow	20-22K	All Purpose	Excellent hard alloy, for making chains
# 791	# 391	Medium Yellow	18-22K	All Purpose	Low density, same color as # 794 / # 394
# 792	# 392	Fine Gold	18-22K	All Purpose	High reusability, tarnish resistant
# 794	# 394	Dark Yellow	18-22K	All Purpose	Very popular for high karat jewelry production
# 796	# 396	Reddish Yellow	20-22K	All Purpose	High reusability
# 821	# 821	Standard Yellow	19-22K	All Purpose	Grain refined, hard, high surface luster
# 823	# 823	Medium Yellow	19-22K	All Purpose	Cobalt based hard alloy

9K-18K PINK GOLD CASTING ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Application	Special Comments
# 796	# 396	Light Pink	9-14K	All Purpose	High reusability
# 620	# 520	Russian Red	9-18K	Casting	Silver based, user-friendly, high reusability
# 625	# 525	Premium Russian Red	9-14K	Casting	Low silver based, user-friendly, high reusability
# NA625	# NA525	Premium Russian Red	9-14K	All Purpose	Low silver, Low De-Ox, European 5N
# 632	# 532	Light Pink	18K	All Purpose	Excellent workability, No cracks
# 634	# 534	Rose Pink	18K	All Purpose	Excellent workability, No cracks
# 636	# 536	Dark Pink	18K	All Purpose	Excellent workability, No cracks
# 640	# 540	Premium Pink	9-14K	Casting	High fluidity, for open melting systems
# 643	# 543	Dark Pink	9-14K	All Purpose	High fluidity, user-friendly
# 644	# 544	Pink	9-14K	Casting	High fluidity, reusability
# 648	# 548	Pink	9-14K	All Purpose	Very user-friendly, enameling
# 650	# 550	Dark Pink	9-14K	All Purpose	Excellent workability, fabrication
# 654	# 554	Bright Russian Red	9-18K	All Purpose	Low silver, Low De-Ox, European 5N color
# 660	# 560	Medium Pink	9-14K	Casting	High reusability, user-friendly

9K-18K BROWN GOLD

THAI Code	U.S.A. Code	Color	Recom. Karat	Application	Special Comments
# BR-1	# BR-1	Light Brown	9-18K	Casting	Light brown casting alloy

10K-18K GREEN GOLD CASTING ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Application	Special Comments
# 670	# 570	Green	14-18K	All Purpose	High reusability, tarnish resistant & luster
# 675	# 575	Green	10-14K	Casting	Versatile alloy, enameling
# ROM-2	# ROM-2	Green	18K	All Purpose	Versatile alloy, enameling

“United Alloys are made with Oxygen Free Metals”

INVESTMENT CASTING MASTER ALLOYS

9K-18K NICKEL/NICKEL-SILVER BASED WHITE GOLD CASTING ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Application	Special Comments
# 869	# 869	White	14-18K	All Purpose	Low nickel, Nickel Safe, multi purposes
# 500	# 900	Premium White	9-18K	Casting	Silicon free, high fluidity & high surface luster
# M500	# M900	Premium White	9-18K	Casting	Silicon free, high fluidity for filigree castings
# 507	# 907	Premium White	14-18K	Casting	Excellent whiteness, rhodium plating optional
# 508	# 908	Super White	18K	Casting	"Ping-tong" hard, rhodium plating optional
# 509	# 909	Premium White	14-18K	Casting	"Ping-tong" for hand torch melting
# 510	# 910	Medium White	9-18K	Casting	Low nickel, high reusability
# 511	# 911	Medium White	9-18K	Casting	Silicon free, version of # 510 / # 910
# 515	# 915	Premium White	14-18K	Casting	High reusability, high surface luster
# 520	# 920	Medium White	9-14K	Casting	Excellent fluidity, stone-in-place
# 525	# 925	Medium White	9-18K	Casting	Silicon free, high fluidity, stone-in-place
# 530	# 930	Ultra White	9-18K	Casting	High surface luster for open systems
# M 530	# M 930	Premium White	9-18K	Casting	High reusability, high fluidity, high surface luster
# 540	# 940	Medium White	9-14K	Casting	Low nickel, for open melting systems
# 542	# 942	Medium White	9-18K	Casting	Silver free Master Alloy for White gold
# 543	# 943	White	9-14K	Casting	High silver based, soft workability
# 550	# 950	Medium White	9-14K	Casting	High fluidity & reusability
# 552	# 952	Ultra White	9-14K	Casting	Silver based, high fluidity, stone-in-place
# 570	# 970	White	9-14K	Casting	Soft workability, for open melting systems
# 574	# 974	Ultra White	9-18K	All Purpose	High fluidity, stone-in-place
# 582	# 982	Ultra White	9-18K	Casting	Excellent fluidity, stone-in-place
# 583	# 983	Ultra White	18K	All Purpose	High fluidity, stone-in-place
# T 5	# T 5	Medium White	9-18K	Casting	Low hardness, suitable for stone-in-place
# T 6	# T 6	Ultra White	9-18K	Casting	High fluidity, stone-in-place
# T 7	# T 7	Premium White	14-18K	Casting	Low melting point, high fluidity
# UW1	# UW1	Medium White	9-14K	Casting	High fluidity for enclosed casting machines
# RM60	# RM60	Super White	18-19K	All Purpose	High fluidity, Excellent whiteness

"925" STERLING SILVER HEAT TREATABLE CASTING ALLOYS

THAI Code	U.S.A. Code	Color	Application	Special Comments
# 013	# S 57	Ultra White	Casting	Patented De-Ox, fire-scale & tarnish resistant, improved hardness
# 013NA	# S 57NA	Ultra White	All Purpose	
# 017	# S 72	Brilliant White	All Purpose	High performance, high reusability
# 015	# S 86	Ultra White	All Purpose	De-Ox, high tarnish resistance, high fluidity
# 011	# S 88	White	All Purpose	De-Ox, high tarnish resistance, high fluidity
# 012	# S 92	Brilliant White	Casting	De-Ox, tarnish resistant
# 012NA	# S 92NA	Brilliant White	All Purpose	High performance for enclosed casting machines
# 014	# S 95	White	All Purpose	Spring-hard, tarnish resistant
# 022	# S 50	White	All Purpose	Spring-hard, tarnish resistant
# 021NA	# S97NA	Super White	All Purpose	De-Ox, high tarnish resistant & fluidity
# 018	# S 93	Standard Silver	All Purpose	Fine grain structure, High performance
# 019	# S 59	Super White	All Purpose	High hardness, tarnish resistant
# 750		Standard Silver	All Purpose	Fine grain structure, High performance

NON STERLING COLORED SILVER

THAI Code	U.S.A. Code	Color	Silver %	Application	Special Comments
# SW-1	# SW-1	Lily White	00.00	All Purpose	Master alloy for lily white silver casting alloy
# SY-2	# SY-2	Medium Yellow	25.00	All Purpose	High reusability, soft for casting & fabrication
# SY-3	# SY-3	Standard Yellow	15.00	All Purpose	High reusability, soft for casting & fabrication
# SG-2	# SG-2	Medium Green	21.00	All Purpose	Soft lemon green color for casting & fabrication
# SP-3	# SP-3	Carnation Pink	19.00	Casting	"Reddish stripped pattern" on sheets
# SY-130		Standard Yellow	14.00	Casting	Anti-tarnish protective is requested
# SP-796		Premium Pink	16.00	Casting	Anti-tarnish protective is requested

9K-14K NICKEL & PALLADIUM "FREE" WHITE GOLD CASTING ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Application	Special Comments
# 580	# 980	Medium White	9-14K	Casting	Easy workability, soft
# ROM 2	# ROM 2	Medium White	9-14K	All Purpose	User-friendly, suitable for ear-posts
# ROM 5	# ROM 5	Medium White	9-10K	All Purpose	Low De-Ox version of # 580 / # 980
# F1	# F1	Natural White	14K	Casting	Patented, high fluidity, excellent whiteness

9K-18K PALLADIUM WHITE GOLD CASTING ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Application	Special Comments
# PD 1	# PD 1	White	9-14K	All Purpose	Sulphate bonded (regular) investment
# PD 2	# PD 2	Vanilla White	14-18K	All Purpose	High surface luster, regular investment powder
# PD 5	# PD 5	Silvery White	9-14K	All Purpose	Low Pd content, soft alloy. Sulphate bonded
# PD 7	# PD 7	Vanilla White	9-14K	All Purpose	High tensile strength, Sulphate bonded
# PD 11	# PD 11	Bright White	18K	All Purpose	Use with Pt. investment powder & casting machine
# PD 12	# PD 12	Snow White	18K	All purpose	high tensile strength
# PD 16	# PD 16	Super White	18K	All Purpose	Use with Pt. investment powder & casting machine
# PD 20	# PD 20	Vanilla White	14-18K	All Purpose	Easy workability, PT. investment recommended
# ROM-2#	# ROM-2	White	18K	All Purpose	Master alloy for palladium (Palladium & Gold addition per choice)
# 580	# 980	White	18K	All Purpose	Master alloy for palladium (Palladium & Gold addition per choice)

BRASS & BRONZE CASTING ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Application	Special Comments
# 730	# 330	Rich Yellow	Brass	All Purpose	Hard De-Ox brass / bronze for sample line, model making
# 732	# 332	Dark Pink	Brass	All Purpose	
# 735	# 335	Light Pink	Brass	All Purpose	
# 740	# 340	Standard Yellow	Brass	All Purpose	
# 741	# 341	Antique Yellow	Bronze	All Purpose	
# 742	# 342	Standard Yellow	Bronze	All Purpose	Also suitable for brass / bronze industry
# 747	# 347	Standard Yellow	Brass	All Purpose	
# 772	# 372	Vanilla White	Brass	Casting	Hard, De-Ox., Non-smoke & Slag
# 773	# 373	Lily White	Brass	Casting	
# B-650	# 650	Reddish Yellow	Brass	Casting	Hard, De-Ox., Non-smoke & Slag
# 530	# 930	Premium White	Brass	Casting	
# T-5	# T-5	Silvery White	Brass	Casting	



***"United Alloys are Formulated in
Inert Atmosphere -Vacuum Furnaces"***



MASTER ALLOYS FOR FABRICATION

(Sheet, Wire & Tube Making)

9K-14K YELLOW GOLD GRAIN - REFINED FABRICATION ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Special Comments
# 191	# 291	Rich Yellow	9-14K	Reverse heat-treatable for fabrication & machining
# 800	# 800	Reddish Yellow	9-14K	Excellent, user-friendly sheet, wire & stamping
# 805	# 805	Greenish Yellow	9-14K	Excellent rolling, sheet, wire & stamping, Color match to # 200 / # 400
# 820	# 820	Standard Yellow	9-14K	Excellent rolling, sheet, wire & stamping
# 823	# 823	Medium Yellow	9-14K	Excellent, user friendly for sheet, wire & stamping
# 824	# 824	Rich Yellow	9-14K	Color match to # UA 1, good for chain making & tubing
# 826	# 826	Light Yellow	9-14K	Excellent, user-friendly, sheet, wire & tube making
# 833	# 833	Standard Yellow	9-14K	Light weight jewelry, high reusability, chain making
# 837	# 837	Light Greenish Yellow	9-14K	Light weight jewelry, excellent for chain manufacturing
# 850	# 850	Standard Yellow	9-14K	Excellent rolling, sheet, wire & stamping, Color match to # 130 / # 230
# 855	# 855	Bright Yellow	9-14K	Excellent rolling, sheet, wire & stamping

18K YELLOW GOLD GRAIN - REFINED FABRICATION ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Special Comments
# 191	# 291	Rich Yellow	18K	Reverse heat-treatable for fabrication & machining
# 715	# 315	Bright Yellow	18K	All purposes for wire, sheet & tube, heat treatable, 3N Color
# 416	# 716	Italian Yellow	18K	All purposes for casting & fabrication
# 425	# 725	Rich Yellow	18K	Excellent fabrication, for sheet, wire & tube making
# 430	# 730	Standard Yellow	18K	Soft fabrication, suitable for enameling purpose
# 440	# 740	Standard Yellow	18K	Soft fabrication
# 442	# 742	Standard Yellow	18K	Soft fabrication, suitable for enameling purpose
# 465	# 765	Greenish Yellow	18K	Same color as # 460 / # 760
# 495	# 795	Dark Yellow	18K	Excellent, user-friendly, sheet, wire & tube making

18K-22K YELLOW GOLD GRAIN - REFINED FABRICATION ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Special Comments
# 776	# 376	Bright Yellow	19-22K	Grain refined, hard, high surface luster
# 777	# 377	Reddish Yellow	22K	Hard, high surface luster, recomm. for bangles
# 781	# 381	Reddish Yellow	18-22K	UA 1 version for higher karat application
# 784	# 384	Dark Yellow	20-22K	All Purpose Low silver, very hard, high fluidity
# 785	# 385	Dark Yellow	20-22K	High tensile strength for chains
# 787	# 387	Standard Yellow	20-22K	All Purposes User-friendly, hard with excellent surface luster
# 789	# 389	Bright Yellow	20-22K	All purposes Excellent hard alloy, for making chains
# 791	# 391	Medium Yellow	18-22K	Low density, similar color to # 794 / # 394
# 792	# 392	Fine Gold	18-22K	High reusability, tarnish resistant
# 794	# 394	Dark Yellow	18-22K	Very popular for high karat jewelry production
# 821	# 821	Standard Yellow	19-22K	Grain refined, hard, high surface luster
# 823	# 823	Standard Yellow	20-22K	User friendly for sheet, wire & stamping

9-18K PINK GOLD GRAIN - REFINED FABRICATION ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Special Comments
# NA625	# NA525	Premium Russian Red	9-14K	All Purpose, Low De-Ox, European 5N color
# 632	# 532	Light Pink	18K	All Purpose, Excellent workability, No cracks
# 634	# 534	Rose Pink	18K	All Purpose, Excellent workability, No cracks
# 636	# 536	Dark Pink	18K	All Purpose, Excellent workability, No cracks
# 640	# 540	Premium Pink	9-14K	All Purpose, high reusability
# 643	# 543	Dark Pink	9-14K	High fluidity, user-friendly
# 648	# 548	Pink	9-14K	Very user-friendly, enameling, all purpose
# 650	# 550	Pink	9-14K	Excellent workability, high tensile strength
# 660	# 560	Dark Pink	9-14K	Excellent fabrication, Thai pink gold traditional

14K-18K GREEN GOLD GRAIN - REFINED FABRICATION ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Special Comments
# 670	# 570	Green	14-18K	Enameling, excellent workability

9K-18K NICKEL/NICKEL – SILVER BASED WHITE GOLD FABRICATION ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Special Comments
# 860	# 860	Ultra White	14-18K	Low nickel, high tensile strength
# 862	# 862	Ultra White	9-18K	Low nickel, excellent workability
# 866	# 866	Medium White	9-18K	Soft machining for chain, tube, wire & sheet manufacturing
# 869	# 869	Medium White	9-18K	Low nickel, soft machining for chain, tube, wire & sheet manufacturing
# 870	# 870	Medium White	9-18K	Medium hard wire & sheet making alloy
# 875	# 875	Medium White	9-18K	Soft, user friendly sheet & wire making alloy

# 880	# 880	Premium White	18K	Soft fabrication
# 574	# 974	Ultra White	9-18K	Excellent workability, high fluidity, stone-in-place
# 583	# 983	Ultra White	14-18K	Silver based, soft, user-friendly
# RM60	# RM60	Super White	18-19K	Excellent whiteness & workability

9K-14K NICKEL & PALLADIUM “FREE” WHITE GOLD FABRICATION ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Special Comments
# ROM-2	# ROM 2	Medium White	9-14K	User-friendly, suitable for ear posts
# ROM-5	# ROM5	Medium White	9-10K	Low De-ox version of # 580 / # 980

9-18K PALLADIUM WHITE GOLD FABRICATION ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Special Comments
# PD 1	# PD 1	White	14K	All purpose, soft
# PD 2	# PD 2	Vanilla White	18K	All purpose, high tensile strength
# PD 5	# PD 5	Silvery White	9-14K	All purpose, low Pd content, soft alloy
# PD 7	# PD 7	Vanilla White	9-14K	All purpose, high tensile strength
# PD 11	# PD 11	Bright White	18K	Excellent casting & fabrication & whiteness
# PD 12	# PD 12	Snow White	18K	All purpose, high tensile strength
# PD 16	# PD 16	Super White	18K	Excellent fabrication, high tensile strength
# PD 20	# PD 20	Vanilla White	14-18K	User friendly, soft and easy workability

CNC YELLOW GOLD, WHITE GOLD, STERLING SILVER FABRICATION ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Special Comments
# 191	# 291	Rich Yellow	9-18K	Reverse heat-treatable for fabrication & machining
# 720	# 320	Standard Yellow	9-18K	Yellow hard-spring for specific machining purposes
# 715	# 315	Bright Yellow	18K	Works well for casting & fabrication
# 823	# 823	Bright Yellow	19-22K	User-friendly for sheet, wire & stamping
# 824	# 824	Rich Yellow	9-14K	Color match to # UA 1, good for chain making
# 862	# 862	Medium White	9-14K	Low nickel, excellent fabrication
# 866	# 866	Medium White	9-18K	Soft for chain, tube, wire & sheet manufacturing
# 013NA	# S 57NA	Ultra White	925	Tarnish resistant, tube, wire & machining for sterling silver

“925” STERLING SILVER ALLOY FOR STERLING SILVER GRAIN REFINED FABRICATION ALLOYS

THAI Code	U.S.A. Code	Color	Special Comments
# 013NA	# S 57NA	Ultra White	Patented De-Ox, fire-scale & tarnish resistant, improved hardness
# 017	# S 72	Brilliant White	High performance, high reusability
# 015	# S 86	Ultra White	De-Ox, high tarnish resistance, high fluidity
# 011	# S 88	White	De-Ox, high tarnish resistance, high fluidity
# 012NA	# S 92NA	Brilliant White	High performance, surface & luster
# 014	# S 95	White	Spring-hard, tarnish resistant
# 022	# S 50	White	Spring-hard, tarnish resistant
# 018	# S 93	Standard Silver	Fine grain structure, High performance
# 750		Standard Silver	Fine grain structure, High performance

BRASS & BRONZE FABRICATION ALLOYS

THAI Code	U.S.A. Code	Color	Recom. Karat	Special Comments
# 730	# 330	Rich Yellow	Brass	Hard De-Ox brass / bronze for sample line, model making Also suitable for brass / bronze industry
# 732	# 332	Dark Pink	Brass	
# 741	# 341	Antique Yellow	Bronze	
# 747	# 347	Standard Yellow	Brass	
# 570	# 970	White	Brass	Nickel White Gold Alloy

READY TO USE GRAIN

CADMIUM FREE SOLDERS & MASTER ALLOYS

PLATINUM GRAIN

READY TO USE (Bead Or Shot Form)

Code	Composition	Application	Special Comments
#PT900 IRID	Platinum 90% + Iridium 10%	All Purpose	High luster, spring-hard
#PT95.2 IRID	Platinum 95.2% + Iridium 4.8%	All Purpose	High luster
#PT950 CO	Platinum 95% + Cobalt 5%	Casting	High fluidity, high hardness
#PT950 RUTH	Platinum 95% + Ruthenium 5%	All Purpose	Excellent fabrication properties, hard
#PT900 PD	Platinum 90% + Palladium 10%	All Purpose	Excellent fabrication properties, soft
#PT95.2 PD	Platinum 95.2% + Palladium 4.8%	All Purpose	Delicate designs & settings

PALLADIUM 950 GRAIN (PD 950)

READY TO USE (Bead Or Shot Form)

Code	Application	Special Comments
#PD950GR5	All Purpose	Soft, excellent reusability, requires Pt investment & casting machine
#PD950GR7	All Purpose	Hard, high reusability & wearability, requires Pt investment & casting machine

"925" STERLING SILVER GRAIN HEAT TREATABLE, DE-OXIDIZED

READY TO USE (Bead Or Shot Form)

Code	Color	Recom.	Application	Special Comments
#STERLUM PLUS™	Ultra White	925	All Purpose	Germanium based, Patented
#STAGCG-Z	Silvery White	925	All Purpose	Traditional silver-copper, non tarnish resistant
#STAGCG-22	Silvery White	925	Casting	Soft, tarnish resistant
#STAGCG-57	Ultra White	925	Casting	Germanium based, Patented De-Ox, fire-scale
#STAGCG-57NA	Ultra White	925	All Purpose	& tarnish resistant, improved hardness
#STAGCG-59	Super White	925	Casting	Hard, Patented De-Ox, tarnish resistant
#STAGCG-86	Ultra White	925	All Purpose	De-Ox, high tarnish resistance, high fluidity
#STAGCG-88	White	925	All Purpose	De-Ox, high tarnish resistance, high fluidity
#STAGCG-97	Ultra White	925	All Purpose	De-Ox high tarnish resistant
#STAGCG-97NA	Super White	925	All Purpose	De-Ox high tarnish resistant

"925" STERLING SILVER GRAIN WITH PRECIOUS METAL

READY TO USE (Bead Or Shot Form)

Code	Color	Recom.	Application	Special Comments
#KARAT STERLING™	Vanilla White	925	All Purpose	Gold based, high tarnish resistant
#STAGCG-PT4	Ultra White	925	Casting	Platinum based, hard, low tarnish resistant
#SILVADIUM™	High Metallic White	925	All Purpose	Palladium based, very high tarnish resistant
#STAGCG-SU	Metallic White	925	All Purpose	Palladium based, high tarnish resistant
#PLATINET™	Brilliant Bright White	925	All Purpose	Platinum based, superior hardness
#PLATILITET™	Brilliant Bright White	925	All Purpose	Platinum based, superior hardness

DE-OXIDIZED KARAT GOLD GRAIN

READY TO USE (Bead Or Shot Form)

Code	Application	Color	Code	Application	Color
10KYCG-230	Casting	Standard Yellow	14K585-T 6	Casting	Ultra White
10KYCG-285	Casting	Rich Reddish Yellow	14KPCG-540	All Purpose	Premium Pink
10KYCG-837	Fabrication	Light Greenish Yellow	14KCG-570	All Purpose	Green
10KYCG-VHF-1	Casting	Light Greenish Yellow	18KYCG-720	Casting	Rich Yellow
10KWCG-930	Casting	Ultra White	18KYCG-760	Casting	Green Yellow
10KWCG-982	Casting	Ultra White	18KYCG-780	Casting	Light Greenish Yellow
10KWCG-ROM2	All Purpose	Ultra White	18KWCG-900	Casting	Medium White
14KYCG-UA-1	Casting	Rich Reddish Yellow	18KWCG-908	All Purpose	Premium White
14KYCG-UA-3	Casting	Light Greenish Yellow	18KWCG-930	Casting	Medium White
14KYCG-200	Casting	Bright Yellow	18KWCG-983	All Purpose	Soft White
14KYCG-220	Casting	Standard Yellow	18KWCG-987	Casting	Medium White
14KYCG-230	Casting	Standard Yellow	18KWCG-880	Fabrication	Medium White
14KYCG-837	Fabrication	Light Greenish Yellow	18KWCG-915	Casting	Ultra White
14KYCG-VHF-2	Casting	Standard Yellow	18KWCG-T-7	Casting	Ultra White
14KWCG-860	Fabrication	Ultra White	18KWCG-RM1	Casting	Premium White
14KWCG-915	Casting	Premium White	18KWCG-RM60	All Purpose	Super White
14KWCG-925	Casting	Medium White	18KWCG-PD-2	All Purpose	Vanilla White
14KWCG-982	Casting	Ultra White	18KWCG-PD-11	All Purpose	Premium White
14KWCG-PD-1	All Purpose	White	18KWCG-PD-16	All Purpose	Super White
14KWCG-900	Casting	Premium White	18KPCG-544	Casting	Pink
14KWCG-930	Casting	Ultra White	19KWCG-RM60	All Purpose	Super White

PLUMB GOLD

Type	Flow F	Temp. C
LOW KARAT SOLDERS		
2.6K YP	Easy	1290 699
6K YP	Easy	1350 732
8K YP	X-Easy	1340 727
8K YP	Easy	1360 738
8K WP	Easy	1420 771
8K YP	Hard	1460 793
9K YP	Easy	1350 732
9K WP	Easy	1360 738

10 KARAT SOLDERS

10K YP	X-Easy	1305 707
10K YP	Easy	1375 746
10K YP	Medium	1400 760
10K YP	Hard	1475 802
10K WP	Easy	1390 754
10K WP	Medium	1435 779
10K WP	Hard	1570 854
10K P	Pink	1550 843

12 KARAT SOLDERS

12K YP	Easy	1410 766
12K YP	Medium	1460 793
12K YP	Hard	1500 816
12K WP	Medium	1425 774
12K PP	Medium	1555 846
18K P	Hard	1610 877
19K WP	Weld	1685 918
20K WP	Weld	1700 927
22K YP	Easy	1670 910

PLUMB GOLD

Type	Flow F	Temp. C
14 KARAT SOLDERS		
14K YP	X-Easy	1295 702
14K YP	Easy	1340 727
14K YP	Medium	1390 754
14K YP	Hard	1480 804
14K YP	X-Hard	1540 838
14K WP	X-Easy	1320 716
14K WP	Easy	1390 754
14K WP	Medium	1450 788
14K WP	Hard	1570 854
14K P	Green	1430 777
14K P	Pink	1560 849
14K P	Medium	1565 852
14K P	Hard	1570 854

18-22 KARAT SOLDERS

18K YP	X-Easy	1410 766
18K YP	Easy	1430 777
18K YP	Medium	1475 802
18K YP	Hard	1550 843
18K WP	X-Easy	1430 777
18K WP	Easy	1460 793
18K WP	Medium	1535 835
18K WP	Hard	1610 877
18K P	Green	1450 788
18K P	Pink	1590 865
18K P	Medium	1600 871

LASER WIRE FOR SOLDERING

Gold/Platinum 36" Min.-Silver 1 t/oz. Min.
Approximate weight per foot in DWT

GA	MM	INCH	14K	18K	Platinum	Sterling
32	.20	.008	.082	.096	.136	.07
34	.15	.006	.046	.054	.076	.04

9K-18K PALLADIUM WHITE GOLD SOLDERS

Code	Color	Recom. Karat	Flow	Special Comments
14KWHPD	Good White	9-14K	All Purpose	Solder flow temp.: 1570 F (854 C)
18KWHPD	Medium White	18K	All Purpose	Solder flow temp.: 1560 F (849 C)

PALLADIUM 950 SOLDERS

Code	Color	Recom. Karat	Flow	Special Comments
PD950E	White	PD-950	Easy	Solder flow temp.: 2010 F (1099 C)
PD950M	White	PD-950	Medium	Solder flow temp.: 2200 F (1204 C)
PD950H	White	PD-950	Hard	Solder flow temp.: 2375 F (1302 C)

GOLD & SILVER SOLDER MASTER ALLOYS

Code	Color	Recom. Karat	Flow	Special Comments
# 1SA	Yellow	8-14K	Extra Easy	For minor repair
# 2SA	Yellow	8-14K	Easy	For soldering findings & repair
# 3SA	Yellow	8-14K	Medium	For soldering findings & sizing
# 4SA	Yellow	8-14K	Hard	Hard, yellow for sizing of jewelry
# 5SA	White	8-14K	All Purpose	Nickel & palladium free white
# 6SA	White	8-14K	Easy	For minor repair
# 7SA	White	8-14K	Medium	For soldering findings & repair
# 8SA	White	8-14K	Hard	For soldering findings & sizing
# 9SA	White	8-18K	Easy	Nickel & palladium free for minor repair
# 11SA	Pink	8-18K	All Purpose	Light pink or dark yellow solder
# 12SA	Dark Pink	14-18K	All Purpose	For minor & major repairs
# 30SA	Yellow	19-22K	All Purpose	For minor & major repairs
# 18KYSAE	Yellow	18-22K	All Purpose	For minor & major repairs
# 18KWSAE	White	18K	All Purpose	For minor & major repairs
# SSA	Sterling silver	925	All Purpose	For minor & major repairs and laser wire



บริษัท ยูไนเต็ด พีเอ็ม (ประเทศไทย) จำกัด

เป็นผู้แทนจำหน่ายอัลลอย บริษัท ยูไนเต็ด พีเอ็มอาร์ สหรัฐอเมริกา แต่เพียงผู้เดียวในประเทศไทย บริษัท ยูไนเต็ด พีเอ็มอาร์ เป็นหนึ่งในผู้นำของโลกที่ผลิตอัลลอยเพื่องานแปรรูป โลหะอัดขึ้นรูป งานทอง งานเงิน งานเงินสี ทองเหลือง ทองสัมฤทธิ์ และ น้ำประสานต่าง ๆ อันมีความชำนาญเป็นพิเศษในการผลิตอัลลอย สำหรับอุตสาหกรรมเครื่องประดับมีค่า และมีชื่อเสียงอย่างมาก ในการผลิตอัลลอยงานหล่อ ที่มีสารไดออกไซด์เซอร์ (DE-OXIDIZER) ซึ่งสามารถลดการออกไซด์ของโลหะในงานหล่อได้เป็นอย่างดี และ รวมถึงในการผลิตอัลลอยสำหรับงานขึ้นมือ รีดแผ่น ดึงลวด ม้วนหลอด ซึ่งสามารถปรับโครงสร้างโลหะในงานผลิตได้เป็นอย่างดี

ยูไนเต็ด อัลลอย เป็นอัลลอยที่มีเอกลักษณ์เฉพาะตัวแตกต่างไปจากอัลลอยอื่นๆ ซึ่งนอกเหนือจากการมีสารไดออกไซด์เซอร์แล้วโลหะที่เป็นส่วนผสมในอัลลอย จะมีความบริสุทธิ์สูงสุด ประกอบด้วยความเข้มงวดในการควบคุมคุณภาพ ทำให้ ยูไนเต็ด อัลลอย สามารถลดปัญหาในการผลิต และ ให้คุณภาพของชิ้นงานที่เหนือกว่าอัลลอยอื่นๆ

คุณสมบัติพิเศษของยูไนเต็ดอัลลอย

-  ลดอัตราการเกิด รุ หรือ ตามด ของชิ้นงาน
-  สามารถใช้ ดัน และทองเคเก่า มาหลอมกับทองใหม่ได้ดี
-  แก้ปัญหารอยฝ้า และการหมองของงานเงิน
-  ให้ชิ้นงานที่สวยงามเป็นเงางาม
-  ง่ายในการหล่อ และการทำงานในขั้นตอนต่อไป
-  ปูนไม่จับติดชิ้นงาน สามารถล้างออกง่าย
-  มีประเภทของอัลลอย และสีให้เลือกมากกว่า
-  เป็นที่นิยมอย่างกว้างขวางทั้งในประเทศและต่างประเทศ

บริษัท ยูไนเต็ด พีเอ็ม (ประเทศไทย) จำกัด

467/7 ชั้น 2 โครงการมหาทุน พระราม 3 เซ็นเตอร์
ถนนพระรามที่ 3 แขวงบางโคล่ เขตบางคอแหลม กรุงเทพมหานคร 10120

โทร: (02) 292 1992-3 แฟกซ์: (02) 292 1994

เว็บไซต์: www.unitedpmtailand.com อีเมล: sales@unitedpmtailand.com

Facebook: United ALLOY Thailand





UNITED[®] PM

(THAILAND) CO.,LTD.

UNITED PM (THAILAND) CO.,LTD.
 467/7, 2nd Floor Mahatun Rama 3 Center,
 Rama 3 Road, Bang Khlo, Bang Kho Leam,
 Bangkok 10120
 Tel: (662) 292 1992-3 Fax: (662) 292 1994
 Website: www.unitedpmtailand.com
 Email: sales@unitedpmtailand.com



THE BEST MASTER ALLOYS FOR CASTING AND ROLLING