

PRODUCT & SERVICES CATALOG



United
PRECIOUS METAL REFINING, INC.

Certified as Environmentally & Ethically Responsible
800.999.FINE • www.UnitedPMR.com

REFINING • PRODUCTS • ANALYTICAL

Maintaining the Highest Standards in Our Industry

Sustainable and certified as environmentally and ethically responsible, we are the largest U.S. owned full service refiner, recycling precious metals for the jewelry industry.



UPMR's fine gold and silver has been certified as being from 100% Recycled Sources.



This certification indicates an assurance to our customers and business partners that we conduct our business responsibly.



UPMR has been determined to be a Conformant Gold Smelter – and is in compliance with the RMAP standards.



UPMR is assessed as a Conformant Gold Refiner by the Responsible Minerals Initiative and is in compliance with the RMAP (Responsible Minerals Assurance Program) as a "Conflict-Free" smelter in gold.



UPMR is designated as an "approved" refiner for delivery of gold bars against the COMEX Gold futures contracts.



Our special combination of technology, prompt service, several settlement options, and commitment to environmental responsibility has made us the "Refiner of Choice."

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ABOUT US

United is a leading supplier of master alloys, de-oxidized sterling silver, solder and wire products. In addition, United is the largest US-owned full-service refiner of precious metals in the United States. Our success in the precious metal industry is due to exceptional levels of detail and uncompromising customer service. The technical expertise at United is unparalleled in the jewelry industry.

What drives us at United is quality. What this means to you is the confidence to know you have purchased the finest product available. But the finest product is just the beginning, behind these products are the technical expertise to make them work. We understand manufacturing processes and equipment used in jewelry manufacturing. Our background is jewelry manufacturing. Our skills however, are in research and development.

OUR PHILOSOPHY

Our philosophy is that our success can only come from your success. We will continue to strive to make your company more productive with improved products and innovative services.

OUR MISSION

United’s mission is to achieve profitable growth through superior customer services, innovation and a commitment to product quality.

INVESTMENT CASTING MASTER ALLOYS



9K - 14K Yellow Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
200	BRIGHT YELLOW	9K-14K	LOW SILVER, HIGH REUSABILITY FOR OPEN SYSTEMS
204	STANDARD YELLOW	9K-14K	LOW SILVER, HIGH REUSABILITY FOR ENCLOSED MACHINES
210	STANDARD YELLOW	9K-14K	FOR LOW WEIGHT APPLICATIONS
220	STANDARD YELLOW	9K-14K	LOW SILVER, HIGH REUSABILITY FOR OPEN SYSTEMS
230	STANDARD YELLOW	9K-14K	LOW ZINC, HIGH REUSABILITY
231	STANDARD YELLOW	9K-14K	LOW DE-OX VERSION OF #230
232	DARK YELLOW	9K-14K	HIGH PERFORMANCE, STONE-IN-PLACE
240	TINT OF GREENISH YELLOW	9K-14K	HIGH TARNISH RESISTANCE & REUSABILITY
241	RICH YELLOW	9K-14K	LOW ZINC, HIGH PERFORMANCE ALLOY
260	LIGHT GREENISH YELLOW	9K-14K	HIGH REUSABILITY, EUROPEAN 3 N COLOR
263	GREENISH YELLOW	14K	EUROPEAN 3 N COLOR
264	GREENISH YELLOW	9K-14K	HIGH REUSABILITY, EUROPEAN 3 N COLOR
265	EUROPEAN YELLOW	9K-14K	EUROPEAN 3 N COLOR, HIGH TARNISH RESISTANCE
269	GREENISH YELLOW	9K-14K	HIGH PERFORMANCE, STONE-IN-PLACE
270	LIGHT YELLOW	9K-14K	GOOD WEARABILITY, TARNISH RESISTANT
278	GREENISH YELLOW	9K-14K	HIGH FLUIDITY & TARNISH RESISTANT, STONE-IN-PLACE
280	RICH YELLOW	9K-14K	STONE-IN-PLACE, HIGH REUSABILITY & TARNISH RESISTANT
285	RICH REDDISH YELLOW	9K-14K	STONE-IN-PLACE, HIGH REUSABILITY & TARNISH RESISTANT
290	RICH REDDISH YELLOW	9K-14K	HIGH PERFORMANCE, HIGH REUSABILITY & TARNISH RESISTANT
821	LIGHT YELLOW	9K-14K	GRAIN REFINED, HARD, HIGH SURFACE LUSTER
823*	MEDIUM YELLOW	9K-14K	COBALT BASED HARD ALLOY
T1	GREENISH YELLOW	9K-14K	LOW SILVER, GOOD TARNISH RESISTANCE
T3	GREENISH YELLOW	9K-14K	LOW SILVER, HIGH REUSABILITY & TARNISH RESISTANT

9K - 14K Yellow Gold (Special Purpose)

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
320	STANDARD YELLOW	9K-14K	YELLOW HARD-SPRING "PING-TONG"



9K - 14K Yellow Gold (Ultra Casting Series)

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
UA1	RICH REDDISH YELLOW	9K-14K	HIGH PERFORMANCE, HIGH REUSABILITY, HIGH TARNISH RESISTANCE, STONE-IN-PLACE
UA2	STANDARD YELLOW	9K-14K	HIGH PERFORMANCE, HIGH REUSABILITY, HIGH TARNISH RESISTANCE, STONE-IN-PLACE

9K - 14K Yellow Gold (Very High Fluidity)

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
VHF 1	LIGHT GREENISH YELLOW	9K-14K	HIGH FLUIDITY FOR DELICATE FILIGREE DESIGNS, & STONE-IN-PLACE
VHF 2	STANDARD YELLOW	9K-14K	HIGH FLUIDITY FOR DELICATE FILIGREE DESIGNS, & STONE-IN-PLACE
VHF 3	TINT OF GREENISH YELLOW	9K-14K	STONE-IN-PLACE, HIGH REUSABILITY & TARNISH RESISTANCE
VHF 4	GREENISH YELLOW	9K-14K	HIGH TARNISH RESISTANCE, GOOD FLUIDITY & REUSABILITY
VHF 10	GREENISH YELLOW	9K-14K	HIGH FLUIDITY FOR DELICATE FILIGREE DESIGNS & STONE-IN-PLACE



9K - 14K Yellow Gold (Centrifugal & Hand Pouring)

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
400	GREENISH YELLOW	9K-14K	NO FIRE-SCALE, HIGH REUSABILITY & TARNISH RESISTANT
440	STANDARD YELLOW	9K-14K	OPEN MELTING, HIGH REUSABILITY & TARNISH RESISTANCE
450	TINT OF GREENISH YELLOW	9K-14K	OPEN MELTING, HIGH REUSABILITY & EUROPEAN 3 N COLOR
630	REDDISH YELLOW	9K-14K	HIGH DE-OX, HIGH REUSABILITY & FLUIDITY

18K Yellow Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
315*	BRIGHT YELLOW	18K	EXCELLENT FOR CASTING & FABRICATION, EUROPEAN 3 N COLOR
713	BRIGHT YELLOW	18K	EXCELLENT WORKABILITY, HIGH LUSTER
716*	ITALIAN YELLOW	18K	EXCELLENT WORKABILITY
720	RICH YELLOW	18K	SMOOTH SURFACE, HIGH LUSTER
725*	RICH YELLOW	18K	SAME COLOR AS #720
740*	PALE LIGHT YELLOW	18K	HIGH TARNISH RESISTANCE, HIGH LUSTER
760	GREENISH YELLOW	18K	LOW DE-OX, EUROPEAN 2 N COLOR
765*	GREENISH YELLOW	18K	SAME COLOR AS #760
780	LIGHT GREENISH YELLOW	18K	SUITABLE FOR ENAMELING
782*	GREENISH YELLOW	18K	HIGH TARNISH RESISTANCE, GOOD REUSABILITY
790*	DEEP YELLOW	18K	LOW DE-OX, EUROPEAN 4 N COLOR
792	DEEP YELLOW	18K	TARNISH RESISTANT VERSION OF #790

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CASTING
MASTER
ALLOYS



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FOR CASTING &
FABRICATION
APPLICATIONS**

INVESTMENT CASTING MASTER ALLOYS



18K - 22K Yellow Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
381*	REDDISH YELLOW	18K-22K	UA 1 VERSION FOR HIGHER KARAT APPLICATIONS
384*	DARK YELLOW	20K-22K	LOW SILVER, VERY HARD, HIGH FLUIDITY
385*	DARK YELLOW	20K-22K	LOW SILVER FOR MAKING CHAINS
392*	FINE GOLD	18K-22K	HIGH REUSABILITY, TARNISH RESISTANT
394*	DARK YELLOW	18K-22K	VERY POPULAR FOR HIGH KARAT JEWELRY PRODUCTION
396*	REDDISH YELLOW	18K-22K	LOW SILVER, HIGH REUSABILITY
821*	STANDARD YELLOW	19K-22K	GRAIN REFINED, HARD, HIGH SURFACE LUSTER
823*	BRIGHT YELLOW	19K-22K	COBALT BASED HARD ALLOY

9K - 18K Pink Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
520	RED	9K-18K	SILVER BASED, USER-FRIENDLY & HIGH REUSABILITY
525	PREMIUM RED	9K-14K	LOW SILVER BASED, USER-FRIENDLY, HIGH REUSABILITY, EUROPEAN 5 N COLOR
NA525*	PREMIUM RED	9K-14K	LOW SILVER, LOW DE-OX, EUROPEAN 5 N COLOR
534*	ROSE PINK	18K	GRAIN REFINED & EXCELLENT WORKABILITY
540	PREMIUM PINK	9K-14K	HIGH FLUIDITY, FOR OPEN MELTING SYSTEMS
543*	DARK PINK	9K-18K	LOW SILVER, HIGH FLUIDITY
544*	PINK	9K-18K	LOW SILVER, HIGH FLUIDITY & REUSABILITY
548*	PINK	9K-18K	LOW SILVER, VERY USER-FRIENDLY, ENAMELING
550*	DARK PINK	9K-18K	EXCELLENT WORKABILITY, FABRICATION
554*	BRIGHT RED	9K-18K	LOW SILVER, LOW DE-OX, EUROPEAN 5 N COLOR
560	MEDIUM PINK	9K-14K	LOW SILVER, HIGH REUSABILITY

9K - 18K Brown Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
BR1*	LIGHT BROWN	9K-18K	LIGHT BROWN CASTING ALLOY

10K - 18K Green Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
570*	GREEN	10K-18K	HIGH REUSABILITY, TARNISH RESISTANT & LUSTER
575*	GREEN	10K-18K	VERSATILE ALLOY, ENAMELING
ROM2*	GREEN	18K	VERSATILE ALLOY, ENAMELING



9K - 18K Nickel/Nickel - Silver Based White Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
862*	ULTRA WHITE	10K-18K	LOW NICKEL MULTI-PURPOSE ALLOY
900	PREMIUM WHITE	9K-18K	SILICON FREE, HIGH FLUIDITY & SURFACE LUSTER
M900	PREMIUM WHITE	9K-18K	SILICON FREE, HIGH FLUIDITY FOR FILIGREE CASTING
907	PREMIUM WHITE	14K-18K	EXCELLENT WHITENESS, RHODIUM PLATING OPTIONAL
908	SUPER WHITE	18K	"PING-TONG" HARD, RHODIUM PLATING OPTIONAL
910	MEDIUM WHITE	9K-18K	LOW NICKEL, HIGH REUSABILITY
915	PREMIUM WHITE	14K-18K	HIGH REUSABILITY & SURFACE LUSTER
920	MEDIUM WHITE	9K-14K	EXCELLENT FLUIDITY, STONE-IN-PLACE
925	MEDIUM WHITE	9K-18K	SILICON FREE, HIGH FLUIDITY, STONE-IN-PLACE
930	ULTRA WHITE	9K-18K	HIGH SURFACE LUSTER FOR OPEN SYSTEMS
M930	PREMIUM WHITE	9K-18K	HIGH REUSABILITY, FLUIDITY & SURFACE LUSTER
940	MEDIUM WHITE	9K-14K	LOW NICKEL, FOR OPEN MELTING SYSTEMS
942	MEDIUM WHITE	9K-18K	SILVER-FREE
943	WHITE	9K-14K	HIGH SILVER BASED, SOFT WORKABILITY
950	MEDIUM WHITE	9K-14K	HIGH FLUIDITY & REUSABILITY
952	ULTRA WHITE	9K-14K	SILVER BASED, HIGH FLUIDITY, STONE-IN-PLACE
970	WHITE	9K-14K	SOFT WORKABILITY, FOR OPEN MELTING SYSTEMS
974*	ULTRA WHITE	9K-18K	LOW SILVER, HIGH FLUIDITY, STONE-IN-PLACE
982	ULTRA WHITE	9K-18K	EXCELLENT FLUIDITY, STONE-IN-PLACE
983*	ULTRA WHITE	18K	HIGH FLUIDITY, STONE-IN-PLACE
RM60*	SUPER WHITE	18K-19K	ALL PURPOSE, NICKEL SAFE WHITE GOLD
T5	MEDIUM WHITE	9K-18K	LOW HARDNESS, SUITABLE FOR STONE-IN-PLACE
T7	PREMIUM WHITE	14K-18K	LOW MELTING POINT, HIGH FLUIDITY



9K - 14K Nickel & Palladium "Free" White Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
936	VANILLA WHITE	9K-10K	HIGH FLUIDITY & USER-FRIENDLY
980	MEDIUM WHITE	9K-10K	EASY WORKABILITY, SOFT
F1	NATURAL WHITE	9K-14K	PATENTED, HIGH FLUIDITY, EXCELLENT COLOR IN 14K
ROM 2*	MEDIUM WHITE	9K-10K	USER-FRIENDLY, SUITABLE FOR EAR-POSTS

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INVESTMENT CASTING MASTER ALLOYS



9K - 18K Palladium White Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
PD1	WHITE	9K-14K	SULPHATE BONDED (REGULAR) INVESTMENT
PD2	VANILLA WHITE	14K-18K	HIGH SURFACE LUSTER, PT INVESTMENT RECOMMENDED
PD5*	SILVERY WHITE	9K-14K	LOW PD CONTENT, SOFT ALLOY, SULPHATE BONDED
PD11	BRIGHT WHITE	18K	USE WITH PT. INVESTMENT POWDER & CASTING MACHINE
PD16*	SUPER WHITE	18K	USE WITH PT. INVESTMENT POWDER & CASTING MACHINE
PD20*	VANILLA WHITE	14K-18K	EASY WORKABILITY, PT INVESTMENT RECOMMENDED

.925 Sterling Silver Heat Treatable Alloys

CODE	COLOR	SPECIAL COMMENTS
S 57	ULTRA WHITE	PATENTED DE-OX, FIRE-SCALE & TARNISH RESISTANT, IMPROVED HARDNESS
S 57 NA*	ULTRA WHITE	PATENTED DE-OX, FIRE-SCALE & TARNISH RESISTANT, IMPROVED HARDNESS
S 72*	BRILLIANT WHITE	HIGH PERFORMANCE & REUSABILITY
S 86*	ULTRA WHITE	DE-OX, HIGH TARNISH RESISTANCE & FLUIDITY
S 88*	WHITE	DE-OX, HIGH TARNISH RESISTANCE & FLUIDITY
S 92	BRILLIANT WHITE	DE-OX, TARNISH RESISTANT
S 92 NA*	BRILLIANT WHITE	HIGH PERFORMANCE FOR ENCLOSED CASTING MACHINES
S 95*	WHITE	SPRING-HARD, TARNISH RESISTANT
S 97 NA*	SUPER WHITE	DE-OX, HIGH TARNISH RESISTANT & FLUIDITY
S D*	STANDARD SILVER	PATENTED, DE-OX, SOFT WHITE, TARNISH RESISTANT

Non-Sterling Colored Silver

CODE	COLOR	SILVER %	SPECIAL COMMENTS
SY-2*	MEDIUM YELLOW	25	HIGH REUSABILITY, SOFT FOR CASTING & FABRICATION
SY-3	STANDARD YELLOW	15	HIGH REUSABILITY, SOFT FOR CASTING & FABRICATION
SP-3	CARNATION PINK	17	"REDDISH STRIPPED PATTERN" ON SHEETS

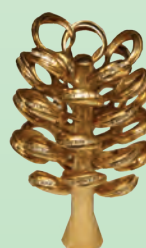


Brass & Bronze

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
330*	YELLOW	BRASS	HARD DE-OX BRASS / BRONZE FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRASS / BRONZE INDUSTRY
332*	REDDISH YELLOW	BRASS	HARD DE-OX BRASS / BRONZE FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRASS / BRONZE INDUSTRY
335*	REDDISH YELLOW	BRASS	HARD DE-OX BRASS / BRONZE FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRASS / BRONZE INDUSTRY
340*	STANDARD YELLOW	BRASS	HARD DE-OX BRASS / BRONZE FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRASS / BRONZE INDUSTRY
341*	ANTIQUE YELLOW	BRONZE	HARD DE-OX BRASS / BRONZE FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRASS / BRONZE INDUSTRY
342*	STANDARD YELLOW	BRONZE	HARD DE-OX BRASS / BRONZE FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRASS / BRONZE INDUSTRY
347*	STANDARD YELLOW	BRASS	HARD DE-OX BRASS / BRONZE FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRASS / BRONZE INDUSTRY
350*	GREENISH YELLOW	BRASS	HARD DE-OX BRASS / BRONZE FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRASS / BRONZE INDUSTRY
371*	WHITE	BRONZE	HARD DE-OX BRASS / BRONZE FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRASS / BRONZE INDUSTRY
372	VANILLA WHITE	BRASS	HARD DE-OX BRASS / BRONZE FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRASS / BRONZE INDUSTRY
373*	WHITE	BRONZE	HARD DE-OX BRASS / BRONZE FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRASS / BRONZE INDUSTRY
650*	STANDARD YELLOW	BRASS	HARD DE-OX BRASS / BRONZE FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRASS / BRONZE INDUSTRY
862*	WHITE	BRASS	NICKEL SILVER, GERMAN SILVER

1K - 6K Goldium® Yellow & White Series (Pre-Karated)

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
1KYCG1*	LIGHT YELLOW	1K	HIGH HARDNESS, GOOD LUSTER
4KYCG1*	STANDARD YELLOW	4K	HARD, GOOD LUSTER & TARNISH RESISTANT
5KYCG1	STANDARD YELLOW	5K	HARD, HIGH LUSTER & TARNISH RESISTANT
6KYCG1*	BRIGHT YELLOW	6K	BRIGHT, SUPER LUSTER & TARNISH RESISTANT
6KWCG1	VERY WHITE	6K	SUPER LUSTER, TARNISH RESISTANT & BRIGHT



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CONVERSION CHARTS

FINENESS OF GOLD KARATS

Karat	Decimal Parts of Fine Gold
6K	= .2500
7K	= .2917
8K	= .3333
9K	= .3750
10K	= .4167
11K	= .4583
12K	= .5000
13K	= .5417
14K	= .5833
15K	= .6250
16K	= .6667
17K	= .7083
18K	= .7500
19K	= .7917
20K	= .8333
21K	= .8750
22K	= .9167
23K	= .9583

UNIT CONVERSIONS

To convert from	To	Multiply by
Karats	DWTs	.12860
Karats	Grams	.2
DWTs	Karats	7.776
DWTs	Grams	1.5552
DWTs	Ounces, Troy	.05
Grams	Karats	5.0
Grams	DWTs	.64301
Inches	Millimeters	25.40
Kilograms	Ounces, Troy	32.1507
Kilograms	DWTs	643.014
Millimeters	Inches	.03937
Ounces, Avoir.	Ounces, Troy	.91146
Ounces, Avoir.	Grams	28.3495
Ounces, Troy	Grams	31.1035
Ounces, Troy	Ounces, Avoir.	1.0971
Pounds, Avoir.	Grams	453.592
Pounds, Avoir.	DWTs	291.666
Pounds, Avoir.	Ounces, Troy	14.583

FEDERAL STANDARDS FOR PLUMB KARAT ASSAYS

10 KARAT

Anything Below .4137 is Underkarated
Anything Above .4197 is Overkarated

14 KARAT

Anything Below .5803 is Underkarated
Anything Above .5863 is Overkarated

18 KARAT

Anything Below .7470 is Underkarated
Anything Above .7530 is Overkarated

TEMPERATURE CONVERSIONS

Celsius to Fahrenheit

$$C \times 1.8 + 32 = F$$

Fahrenheit to Celsius

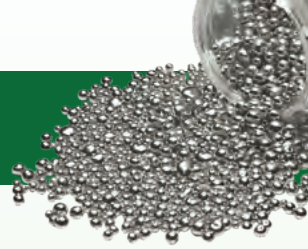
$$F - 32 \text{ divided by } 1.8 = C$$

CONVERSION GRID TO ESTIMATE CASTING WEIGHT IN DIFFERENT METALS

Present Metal

Desired Metal	10K Yellow	10K White	14K Yellow	14K White	18K Yellow	18K White	Sterling Silver	Platinum	10% Ir Platinum	Alloy	24K Fine Gold	Wax
10K Yellow	1.000	1.045	0.885	0.918	0.743	0.790	1.105	0.539	0.537	1.377	0.599	11.570
10K White	0.957	1.000	0.847	0.878	0.711	0.756	1.057	0.516	0.514	1.318	0.573	11.070
14K Yellow	1.130	1.181	1.000	1.036	0.839	0.893	1.248	0.609	0.607	1.556	0.677	13.070
14K White	1.090	1.139	0.965	1.000	0.809	0.861	1.204	0.588	0.585	1.501	0.653	12.610
18K Yellow	1.347	1.407	1.192	1.236	1.000	1.064	1.488	0.726	0.723	1.855	0.806	15.580
18K White	1.265	1.322	1.120	1.161	0.940	1.000	1.398	0.683	0.680	1.743	0.758	14.640
Sterling	0.905	0.946	0.801	0.830	0.672	0.715	1.000	0.488	0.486	1.246	0.542	10.470
Platinum	1.854	1.938	1.641	1.701	1.377	1.465	2.049	1.000	0.996	2.554	1.110	21.450
10% Ir	1.862	1.946	1.648	1.708	1.383	1.471	2.057	1.004	1.000	2.564	1.115	21.540
Alloy	0.726	0.759	0.643	0.666	0.539	0.574	0.802	0.392	0.390	1.000	0.435	8.400
24K	1.670	1.745	1.478	1.532	1.240	1.320	1.845	0.901	0.897	2.300	1.000	19.320

MASTER ALLOYS FOR FABRICATION



9K - 14K Yellow Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
291	RICH YELLOW	9K-14K	REVERSE HEAT-TREATABLE FOR FABRICATION & MACHINING
800	REDDISH YELLOW	9K-14K	EXCELLENT, USER-FRIENDLY SHEET, WIRE & STAMPING
805	GREENISH YELLOW	9K-14K	COLOR MATCH TO #278 & #VHF-10
820	STANDARD YELLOW	9K-14K	LOW SILVER, LIGHT WEIGHT, EXCELLENT ROLLING, WIRE & STAMPING
823	MEDIUM YELLOW	9K-14K	EXCELLENT, USER-FRIENDLY FOR SHEET, WIRE & STAMPING
824	RICH YELLOW	9K-14K	COLOR MATCH TO UA 1, GOOD FOR CHAIN & TUBING
826	LIGHT YELLOW	9K-14K	USER-FRIENDLY FOR SHEET, WIRE & TUBE MAKING
837	LIGHT GREENISH YELLOW	9K-14K	LOW SILVER, EXCELLENT FOR CHAIN MANUFACTURING
850	STANDARD YELLOW	9K-14K	SOFT, USER-FRIENDLY SHEET MAKING ALLOY
855	BRIGHT YELLOW	9K-14K	LOW PRICE POINT FOR LIGHT WEIGHT JEWELRY

18K Yellow Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
291	RICH YELLOW	18K	REVERSE HEAT-TREATABLE FOR FABRICATION & MACHINING
315*	BRIGHT YELLOW	18K	ALL PURPOSE FOR WIRE, SHEET & TUBE MAKING, HEAT TREATABLE, EUROPEAN 3 N COLOR
716*	ITALIAN YELLOW	18K	ALL PURPOSE FOR CASTING & FABRICATION
725*	RICH YELLOW	18K	EXCELLENT FOR SHEET, WIRE & TUBE MAKING
740*	STANDARD YELLOW	18K	SOFT FABRICATION
765*	GREENISH YELLOW	18K	EUROPEAN 2 N COLOR
795	DARK YELLOW	18K	EXCELLENT, USER-FRIENDLY, SHEET, WIRE & TUBE MAKING

18K - 22K Yellow Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
376	BRIGHT YELLOW	19K-22K	GRAIN REFINED, HARD, HIGH SURFACE LUSTER
377	REDDISH YELLOW	22K	HARD, HIGH SURFACE LUSTER, RECOMMENDED FOR BANGLES
381	REDDISH YELLOW	18K-22K	UA 1 VERSION FOR HIGHER KARAT APPLICATION
384*	DARK YELLOW	20K-22K	ALL PURPOSE, LOW SILVER, VERY HARD, HIGH FLUIDITY
385*	DARK YELLOW	20K-22K	LOW SILVER, HIGH TENSILE STRENGTH FOR CHAINS
392*	FINE GOLD	18K-22K	HIGH REUSABILITY, TARNISH RESISTANT
394*	DARK YELLOW	18K-22K	VERY POPULAR FOR HIGH KARAT JEWELRY PRODUCTION
821*	STANDARD YELLOW	19K-22K	GRAIN REFINED, HARD, HIGH SURFACE LUSTER



9K - 18K Pink Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
NA525*	PREMIUM RED	9K-14K	ALL PURPOSE, LOW SILVER, LOW DE-OX, EUROPEAN 5 N COLOR
543*	DARK PINK	9K-18K	LOW SILVER, HIGH FLUIDITY
548*	PINK	9K-18K	LOW SILVER, VERY USER-FRIENDLY, ENAMELING, ALL PURPOSE
550*	DARK PINK	9K-18K	EXCELLENT WORKABILITY, HIGH TENSILE STRENGTH

9K - 18K Nickel/Nickel - Silver Based White Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
860	ULTRA WHITE	14K-18K	LOW NICKEL, HIGH TENSILE STRENGTH
862*	ULTRA WHITE	10K-18K	LOW NICKEL, EXCELLENT WORKABILITY
866	MEDIUM WHITE	9K-18K	SOFT MACHINING FOR CHAIN, TUBE, WIRE & SHEET MANUFACTURING
869	MEDIUM WHITE	9K-18K	SOFT, USER-FRIENDLY
870	MEDIUM WHITE	9K-18K	MEDIUM HARD WIRE & SHEET MAKING ALLOY
875	MEDIUM WHITE	9K-18K	SOFT, USER-FRIENDLY SHEET & WIRE MAKING ALLOY
880	PREMIUM WHITE	18K	SOFT FABRICATION
974*	ULTRA WHITE	9K-18K	LOW SILVER, EXCELLENT WORKABILITY
983*	ULTRA WHITE	18K	SILVER BASED, SOFT, USER-FRIENDLY
RM60*	SUPER WHITE	18K-19K	ALL PURPOSE, NICKEL SAFE WHITE GOLD



***ALL PURPOSE ALLOY
FOR CASTING &
FABRICATION
APPLICATIONS**

MASTER ALLOYS FOR FABRICATION

9K - 10K Nickel & Palladium “Free” White Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
ROM2*	MEDIUM WHITE	9K-10K	USER-FRIENDLY, SUITABLE FOR EAR POSTS



9K - 18K Palladium White Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
PD 5*	SILVERY WHITE	9K-14K	ALL PURPOSE, LOW PD CONTENT, SOFT ALLOY
PD 16*	SUPER WHITE	18K	EXCELLENT FABRICATION, HIGH TENSILE STRENGTH
PD 20*	VANILLA WHITE	14K-18K	USER-FRIENDLY, SOFT & EASY WORKABILITY

Computerized Numerical Cutting (CNC)

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
291	RICH YELLOW	9K-14K	REVERSE HEAT-TREATABLE FOR FABRICATION & MACHINING
320	STANDARD YELLOW	9K-14K	YELLOW HARD-SPRING FOR SPECIFIC MACHINING PURPOSES
315*	BRIGHT YELLOW	18K	WORKS WELL FOR CASTING & FABRICATION
823	BRIGHT YELLOW	19K-22K	USER-FRIENDLY FOR SHEET, WIRE & STAMPING
824	RICH YELLOW	9K-14K	COLOR MATCH TO UA 1, GOOD FOR CHAIN MAKING
862	ULTRA WHITE	10K-18K	LOW NICKEL, EXCELLENT FABRICATION
866	MEDIUM WHITE	9K-18K	SOFT FOR CHAIN, TUBE, WIRE & SHEET MANUFACTURING
S 57 NA	ULTRA WHITE	0.925	TARNISH RESISTANT, TUBE, WIRE & MACHINING FOR STERLING SILVER

.925 Sterling Silver Alloy for Sterling Silver

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
S 57 NA*	ULTRA WHITE	0.925	PATENTED DE-OX, FIRE-SCALE & TARNISH RESISTANT, IMPROVED HARDNESS
S 72*	BRILLIANT WHITE	0.925	HIGH PERFORMANCE, HIGH REUSABILITY
S 86*	ULTRA WHITE	0.925	DE-OX, HIGH TARNISH RESISTANCE, HIGH FLUIDITY
S 88*	WHITE	0.925	DE-OX, HIGH TARNISH RESISTANCE, HIGH FLUIDITY
S 92 NA*	BRILLIANT WHITE	0.925	HIGH PERFORMANCE SURFACE & LUSTER
S 95*	WHITE	0.925	SPRING-HARD, TARNISH RESISTANT
S 97 NA*	SUPER WHITE	0.925	DE-OX, HIGH TARNISH RESISTANT & FLUIDITY
S D*	STANDARD SILVER	0.925	PATENTED DE-OX, SOFT WHITE, TARNISH RESISTANT, GOOD FOR ROLLING



Brass & Bronze

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
335*	REDDISH YELLOW	BRASS	HARD DE-OX BRASS FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRASS INDUSTRY
340*	STANDARD YELLOW	BRASS	HARD DE-OX BRASS FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRASS INDUSTRY
341*	RICH YELLOW	BRONZE	HARD DE-OX BRONZE FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRONZE INDUSTRY
342*	STANDARD YELLOW	BRONZE	HARD DE-OX BRONZE FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRONZE INDUSTRY
373*	WHITE	BRONZE	HARD DE-OX BRONZE FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRONZE INDUSTRY
650*	STANDARD YELLOW	BRASS	HARD DE-OX BRASS FOR SAMPLE LINES, MODEL MAKING; ALSO SUITABLE FOR BRASS INDUSTRY

10K - 18K Green Gold

CODE	COLOR	RECOM. KT	SPECIAL COMMENTS
570*	GREEN	10K-18K	ENAMELING, EXCELLENT WORKABILITY
575*	GREEN	10K-18K	ALL PURPOSE, ENAMELING & FABRICATION
ROM2*	GREEN	18K	ALL PURPOSE, ENAMELING & FABRICATION

SCAN TO
VIEW
FABRICATION
MASTER
ALLOYS



*ALL PURPOSE ALLOY
FOR CASTING &
FABRICATION
APPLICATIONS

READY-TO-USE GRAIN



De-Oxidized Karat Gold Grain

READY-TO-USE BEAD/SHOT FORM

CODE	APPLICATION	COLOR
10KYCG-230	CASTING	STANDARD YELLOW
10KYCG-285	CASTING	RICH REDDISH YELLOW
10KWCG-930	CASTING	ULTRA WHITE
10KWCG-982	CASTING	ULTRA WHITE
14KYCG-UA-1	CASTING	RICH REDDISH YELLOW
14KYCG-UA-3	CASTING	LIGHT GREENISH YELLOW
14KYCG-200	CASTING	BRIGHT YELLOW
14KYCG-220	CASTING	STANDARD YELLOW
14KYCG-230	CASTING	STANDARD YELLOW
14KWCG-860	FABRICATION	ULTRA WHITE
14KWCG-915	CASTING	PREMIUM WHITE
14KWCG-925	CASTING	MEDIUM WHITE
14KWCG-982	CASTING	ULTRA WHITE
14KWCG-PD-1	CASTING	WHITE
14KWCG-900	CASTING	PREMIUM WHITE
14KWCG-907	CASTING	PREMIUM WHITE

CODE	APPLICATION	COLOR
14KWCG-930	CASTING	ULTRA WHITE
14KPCG-540	ALL PURPOSE	PREMIUM PINK
14KGCG-570	ALL PURPOSE	GREEN
18KYCG-720	CASTING	RICH YELLOW
18KYCG-760	CASTING	GREEN YELLOW
18KYCG-780	CASTING	LIGHT GREENISH YELLOW
18KWCG-900	CASTING	MEDIUM WHITE
18KWCG-930	CASTING	MEDIUM WHITE
18KWCG-983	ALL PURPOSE	SOFT WHITE
18KWCG-987	CASTING	MEDIUM WHITE
18KWCG-915	CASTING	ULTRA WHITE
18KWCG-T 7	CASTING	ULTRA WHITE
18KWCG-RM1	CASTING	PREMIUM WHITE
18KWCG-PD-2	CASTING	VANILLA WHITE
18KWCG-PD-11	CASTING	PREMIUM WHITE
18KPCG-544	CASTING	PINK

.925 Sterling Silver Grain Heat Treatable, De-Oxidized

READY-TO-USE BEAD/SHOT FORM

CODE	COLOR	APPLICATION	SPECIAL COMMENTS
STERLIUM™	DAZZLING WHITE	ALL PURPOSE	HIGH PERFORMANCE FOR ENCLOSED CASTING
STERLIUM PLUS	ULTRA WHITE	ALL PURPOSE	GERMANIUM BASED, PATENTED
STAGCG	SILVERY WHITE	ALL PURPOSE	PHOS DE-OX, TRADITIONAL SILVER-COPPER
STAGCG-Z	SILVERY WHITE	ALL PURPOSE	TRADITIONAL SILVER-COPPER, NON TARNISH RESISTANT
STAGCG-22	SILVERY WHITE	CASTING	SOFT, TARNISH RESISTANT
STAGCG-57	ULTRA WHITE	CASTING	GERMANIUM BASED PATENTED DE-OX, FIRE-SCALE & TARNISH RESISTANT, IMPROVED HARDNESS
STAGCG-57NA	ULTRA WHITE	ALL PURPOSE	GERMANIUM BASED PATENTED DE-OX, FIRE-SCALE & TARNISH RESISTANT, IMPROVED HARDNESS
STAGCG-59	SUPER WHITE	CASTING	HARD, PATENTED DE-OX, TARNISH RESISTANT
STAGCG-86	ULTRA WHITE	ALL PURPOSE	DE-OX, HIGH TARNISH RESISTANCE, HIGH FLUIDITY
STAGCG-88	WHITE	ALL PURPOSE	DE-OX, HIGH TARNISH RESISTANCE, HIGH FLUIDITY
STAGCG-97	ULTRA WHITE	ALL PURPOSE	DE-OX, HIGH TARNISH RESISTANT
STAGCG-97NA	SUPER WHITE	ALL PURPOSE	DE-OX, HIGH TARNISH RESISTANT
STAGCG-D	STANDARD SILVER	ALL PURPOSE	PATENTED DE-OX, SOFT, TARNISH RESISTANT

.925 Sterling Silver Grain with Precious Metals

READY-TO-USE BEAD/SHOT FORM

CODE	COLOR	APPLICATION	SPECIAL COMMENTS
SILVADIUM™ 1	PREMIUM METALLIC WHITE	ALL PURPOSE	PALLADIUM BASED, HIGH TARNISH RESISTANCE & HARDNESS
STAGCG-MAG	NICKEL WHITE	CASTING	PLATINUM BASED, VERY HARD, LOW TARNISH RESISTANT
STAGCG-SU	METALLIC WHITE	ALL PURPOSE	PALLADIUM BASED, HIGH TARNISH RESISTANT
KARAT STERLING	VANILLA WHITE	ALL PURPOSE	GOLD BASED, HIGH TARNISH RESISTANCE
PLATILITE™	BRILLIANT BRIGHT WHITE	ALL PURPOSE	PLATINUM BASED, USER FRIENDLY
PLATINET™	BRILLIANT BRIGHT WHITE	ALL PURPOSE	PLATINUM BASED, SUPERIOR HARDNESS



Platinum Grain

READY-TO-USE BEAD/SHOT FORM

CODE	COMPOSITION	APPLICATION	SPECIAL COMMENTS
PTGRAIN	PLATINUM 90.0% + IRIIDIUM 10.0%	ALL PURPOSE	HIGH LUSTER, SPRING-HARD
PT95.2IRID	PLATINUM 95.2% + IRIIDIUM 4.8%	ALL PURPOSE	HIGH LUSTER
PT95CO	PLATINUM 95.0% + COBALT 5.0%	CASTING	HIGH FLUIDITY, HIGH HARDNESS
PT95RUTH	PLATINUM 95.0% + RUTHENIUM 5.0%	ALL PURPOSE	EXCELLENT FABRICATION PROPERTIES, HARD
PT90PD	PLATINUM 90.0% + PALLADIUM 10.0%	ALL PURPOSE	EXCELLENT FABRICATION PROPERTIES, SOFT
PT95.2PD	PLATINUM 95.2% + PALLADIUM 4.8%	ALL PURPOSE	DELICATE DESIGNS & SETTINGS

SCAN TO
VIEW
READY-TO-USE
GRAIN



Palladium 950 Grain

READY-TO-USE BEAD/SHOT FORM

CODE	APPLICATION	SPECIAL COMMENTS
PD950GR7	ALL PURPOSE	HARD, HIGH REUSABILITY & WEARABILITY, REQUIRES PT INVESTMENT & CASTING MACHINE

*** ALL PURPOSE ALLOY
FOR CASTING &
FABRICATION
APPLICATIONS**

Maintaining the Highest Standards in Our Industry

Sustainable and certified as environmentally and ethically responsible, we are the largest U.S. owned full service refiner, recycling precious metals for the jewelry industry.



Responsible Jewellery Council (RJC): Code of Practices

The RJC – COP provides the guidelines which define the criteria for the ethical, social, human rights, and environmental standards for responsible business practices throughout the jewelry supply chain. UPMR has held this certification since 2016. This certification indicates an assurance to our customers and business partners that we conduct our business responsibly.



SCS: Global Services

SCS Global is a third-party certification, verification and validation service. UPMR's fine gold and silver has been certified as being from 100% Recycled Sources. We have held this certification since 2012.



Responsible Minerals Initiative (RMI – RMAP)

The RMI defines the standard for smelters and refiners that participate in the RMAP (Responsible Minerals Assurance Program). This standard conducts assurance testing to warrant that UPMR conducts its due-diligence in accordance with internationally recognized frameworks, most notably, the OECD Minerals Due Diligence Guidance for Responsible Supply Chains - Supplement on Gold (Annex II). UPMR has been determined to be a Conformant Gold Smelter – and is in compliance with the RMAP standards (or its predecessor, the EICC – GeSI) since 2014.



COMEX Approved Gold

UPMR has been designated as a "approved" refiner for delivery of gold bars against the COMEX Gold futures contracts. United has held this distinction since 2014.



Conflict Free Gold

UPMR has been assessed as a Conformant Gold Refiner by the Responsible Minerals Initiative and is in compliance with the RMAP (Responsible Minerals Assurance Program) as a "Conflict-Free" smelter in gold. It is our policy not to conduct business with any counter party that takes any material from any country or region which we believe was obtained with methods involving exploitation or other serious human rights violations or which may, directly or indirectly, support or benefit armed rebels or terrorist groups through illegal finance or other activities. UPMR has also been in compliance with the Dodd-Frank – Section 1502 from its enactment and has historically been committed to responsible sourcing of gold since our inception.



United Re-Defined Environmental Responsible

Our special combination of technology, prompt service, several settlement options, and commitment to environmental responsibility has made many of our customers refer to us as their "Refiner of Choice."

CADMIUM FREE SOLDERS



PLUMB GOLD

Low Karat Solders

TYPE	FLOW °F	TEMP. °C
2.6K Y EASY P	1252°	678°
6K Y EASY P	1308°	709°
8K Y X-EASY P	1258°	681°
8K Y EASY P	1330°	721°
8K W EASY P	1308°	709°
8K Y HARD P	1522°	828°
9K Y EASY P	1315°	713°
9K W EASY P	1330°	721°

10K Solders

TYPE	FLOW °F	TEMP. °C
10K Y X-EASY P	1297°	703°
10K Y EASY P	1332°	722°
10K Y MED P	1407°	764°
10K Y HARD P	1512°	822°
10K W EASY P	1368°	742°
10K W MED P	1375°	746°
10K W HARD P	1393°	756°
10K PINK P	1636°	891°

12K Solders

TYPE	FLOW °F	TEMP. °C
12K Y EASY P	1366°	741°
12K Y MED P	1416°	769°
12K Y HARD P	1512°	822°
12K W MED P	1407°	764°
12K P MED P	1665°	907°

14K Solders

TYPE	FLOW °F	TEMP. °C
14K Y X-EASY P	1384°	751°
14K Y EASY P	1404°	762°
14K Y MED P	1445°	785°
14K Y HARD P	1510°	821°
14K Y X-HARD P	1524°	829°
14K W X-EASY P	1224°	662°
14K W EASY P	1364°	740°
14K W MED P	1436°	780°
14K W HARD P	1474°	801°
14K W X-HARD P	1481°	805°
14K GREEN P	1351°	733°
14K PINK EASY P	1558°	848°
14K PINK MED P	1634°	890°
14K PINK HARD P	1652°	900°

18K - 22K Solders

TYPE	FLOW °F	TEMP. °C
18K Y X-EASY P	1378°	748°
18K Y EASY P	1470°	799°
18K Y MED P	1571°	855°
18K Y HARD P	1593°	867°
18K W X-EASY P	1432°	778°
18K W EASY P	1539°	837°
18K W MED P	1557°	847°
18K W HARD P	1607°	875°
18K GREEN P	1479°	804°
18K PINK X-EASY P	1467°	797°
18K PINK EASY P	1580°	860°
18K PINK MED P	1598°	870°
18K PINK HARD P	1607°	875°
19K W WELD P	1639°	893°
20K W WELD P	1587°	864°
22K Y EASY P	1702°	928°

REPAIR GOLD

Costume & Low Karat Solders

TYPE	FLOW °F	TEMP. °C
6Y X-EASY	1238°	670°
6Y EASY	1337°	725°
6W EASY	1407°	764°
8Y EASY	1335°	724°

10K Solders

TYPE	FLOW °F	TEMP. °C
10Y EASY	1222°	661°
10Y MED	1272°	689°
10Y HARD	1348°	731°
10W EASY	1454°	790°
10W MED	1353°	734°
10W HARD	1377°	747°
12Y EASY	1333°	723°

14K Solders

TYPE	FLOW °F	TEMP. °C
14Y X-EASY	1292°	700°
14Y EASY	1337°	725°
14Y MED	1409°	765°
14Y HARD	1503°	817°
14W X-EASY	1357°	736°
14W EASY	1395°	757°
14W MED	1382°	750°
14W HARD	1398°	759°

18K - 22K Solders

TYPE	FLOW °F	TEMP. °C
18Y EASY	1425°	764°
18Y MED	1495°	814°
18Y HARD	1535°	833°
18W EASY	1465°	796°
18W MED	1495°	827°
18W HARD	1590°	900°
20W WELD	1610°	895°

Repair Platinum Solders

TYPE	FLOW °F	TEMP. °C
PS 900	1836°	1002°
PS 1000	1886°	1030°
PS 1100	2064°	1129°
PS 1200	2226°	1219°
PS 1300	2426°	1330°
PS 1400	2597°	1425°
PS 1500	2732°	1500°
PS 1600	2912°	1600°
PS 1700	3092°	1700°

Plumb Platinum Solders

TYPE	FLOW	FLOW °F	TEMP. °C
PSP1300E	EASY	2372°	1300°
PSP1400M	MEDIUM	2552°	1400°
PSP1500H	HARD	2732°	1500°

Always in Stock & Ready to Ship!

Solder is available in a variety of sizes, including 1 D WT and 5 D WT pieces, as well as clipped solder.

CADMIUM FREE SOLDERS



Silver Solders

TYPE	FLOW °F	TEMP. °C
S X-SOFT	1247°	675°
S SOFT	1278°	692°
S MEDIUM	1341°	727°
S HARD	1396°	758°
S X-HARD	1434°	779°

14K - 18K Palladium White Gold Solders

CODE	COLOR	RECOM. KARAT	FLOW	SPECIAL COMMENTS
14KWHPD	GOOD WHITE	14K	ALL PURPOSE	SOLDER FLOW TEMP.: 1443°F (784°C)
18KWHPD	MEDIUM WHITE	18K	ALL PURPOSE	SOLDER FLOW TEMP.: 1468°F (798°C)

Palladium 950 Solders

CODE	COLOR	RECOM. KARAT	FLOW	SPECIAL COMMENTS
PD950E	WHITE	PD-950	EASY	SOLDER FLOW TEMP.: 2125°F (1163°C)
PD950M	WHITE	PD-950	MEDIUM	SOLDER FLOW TEMP.: 2214°F (1212°C)
PD950H	WHITE	PD-950	HARD	SOLDER FLOW TEMP.: 2365°F (1296°C)

Laser Wire for Soldering

GOLD / PLATINUM 1 DWT MIN. - SILVER 1 T/OZ. MIN.
APPROXIMATE WEIGHT PER FOOT IN DWT

GA	MM	INCH	10K	14K	18K	PLATINUM	STERLING
32	0.20	0.008	-	0.082	0.096	0.136	0.07
34	0.15	0.006	-	0.046	0.054	0.075	0.05



Master Alloys for Making Gold & Silver Solder

CODE	COLOR	RECOM. KARAT	FLOW	SPECIAL COMMENTS
1SA	YELLOW	8K - 14K	EXTRA EASY	FOR MINOR REPAIR
2SA	YELLOW	8K - 14K	EASY	FOR SOLDERING FINDINGS & REPAIR
3SA	YELLOW	8K - 14K	MEDIUM	FOR SOLDERING FINDINGS & REPAIR
4SA	YELLOW	8K - 14K	HARD	HARD, YELLOW FOR SIZING OF JEWELRY
5SA	WHITE	8K - 14K	ALL PURPOSE	NICKEL & PALLADIUM FREE WHITE
6SA	WHITE	8K - 14K	EASY	FOR MINOR REPAIR
7SA	WHITE	8K - 14K	MEDIUM	FOR SOLDERING FINDINGS & REPAIR
8SA	WHITE	8K - 14K	HARD	FOR SOLDERING FINDINGS & REPAIR
9SA	WHITE	8K - 14K	EASY	NICKEL & PALLADIUM FREE FOR MINOR REPAIRS
11SA	PINK	14K - 18K	ALL PURPOSE	LIGHT PINK OR DARK YELLOW SOLDER
12SA	DARK PINK	14K - 18K	ALL PURPOSE	FOR MINOR & MAJOR REPAIRS
13SA	DARK PINK	18K	HARD	FOR MAJOR REPAIRS
14SA	PINK	18K	MEDIUM	FOR MINOR & MAJOR REPAIRS
15SA	PINK	18K	EASY	FOR MINOR & MAJOR REPAIRS
30SA	YELLOW	19K - 22K	ALL PURPOSE	FOR MINOR & MAJOR REPAIRS
18KYSAE	YELLOW	18K	ALL PURPOSE	FOR MINOR & MAJOR REPAIRS
18KWSAE	WHITE	18K	ALL PURPOSE	FOR MINOR & MAJOR REPAIRS
SSA	STERLING SILVER	0.925	ALL PURPOSE	FOR MINOR & MAJOR REPAIRS & FOR LASER WIRE

SCAN TO
VIEW
CADMIUM
FREE
SOLDERS



ALWAYS IN STOCK
& READY TO SHIP!

Solder is available in a variety of sizes, including 1 D WT and 5 D WT pieces, as well as clipped solder.

SIZING STOCK, WIRE, SHEET & TUBING



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	0.46	0.018	0.36	0.42	0.50	0.66	-
26	0.40	0.016	0.29	0.33	0.39	0.52	0.23
27	0.36	0.014	0.23	0.26	0.31	0.42	-
28	0.32	0.013	0.18	0.21	0.25	0.33	0.15
29	0.29	0.011	0.15	0.16	0.20	0.27	-
30	0.25	0.010	0.11	0.13	0.16	0.21	0.10

**Available in many other sizes. Most products are available in 10K, 14K, & 18K yellow, white, red, and green gold, Sterium Plus, fine silver, palladium & platinum, 14K & 18K white gold with Palladium.

Round Wire

APPROXIMATE WEIGHT PER FOOT IN DWT

GA	MM	INCH	10K	14K	18K
2	6.54	0.26	75.25	85.10	102.25
3	5.83	0.23	59.95	67.50	81.25
4	5.19	0.20	47.25	53.75	64.75
6	4.12	0.16	29.95	33.75	42.15
7	3.67	0.14	24.25	28.15	32.07
8	3.26	0.13	19.75	21.15	25.65
9	2.91	0.11	16.25	18.45	20.95
10	2.59	0.10	11.95	13.50	16.05
11	2.31	0.09	9.45	11.15	12.70
12	2.05	0.08	7.40	8.90	10.25
13	1.83	0.07	6.45	6.70	8.15
14	1.63	0.06	4.64	5.35	6.45
	1.50	0.06	4.17	4.72	5.63
15	1.45	0.06	3.90	4.30	5.02
16	1.29	0.05	3.35	3.40	4.00
17	1.15	0.05	2.60	2.85	3.20
18	1.02	0.04	1.95	2.05	3.25
19	0.91	0.04	1.65	1.70	2.05
20	0.81	0.03	1.25	1.35	1.60
	0.75	0.03	1.02	1.15	1.38
21	0.72	0.03	0.85	0.98	1.25
22	0.64	0.03	0.75	0.84	1.00
23	0.57	0.02	0.60	0.65	0.85
24	0.51	0.02	0.50	0.55	0.60
25	0.46	0.02	0.36	0.40	0.48
26	0.41	0.02	0.35	0.38	0.40
27	0.36	0.01	0.24	0.30	0.36
28	0.32	0.01	0.23	0.26	0.28
29	0.29	0.01	0.15	0.18	0.24
30	0.26	0.01	0.12	0.14	0.16

**Available in many other sizes. Most products are available in 10K, 14K, & 18K yellow, white, red, and green gold, Sterium Plus, fine silver, palladium & platinum, 14K & 18K white gold with Palladium.

Half Round Wire

APPROXIMATE WEIGHT PER FOOT IN DWT

MM	10K	14K	18K
8 x 2	27.50	34.00	38.50
8 x 1.5	20.50	24.50	29.50
7 x 2	24.75	29.10	34.75
7 x 1.5	17.10	23.16	25.10
6 x 2	22.15	25.17	30.25
6 x 1.5	15.75	18.25	21.75
5 x 2	18.75	21.80	25.90
5 x 1.5	14.00	15.75	18.90
4 x 2	14.75	17.50	20.35
4 x 1.5	11.59	13.26	15.76
3 x 2	12.20	13.75	16.25
3 x 1.5	9.15	10.27	12.80
2 x 1.5	6.25	7.95	8.75
2 x 1	4.10	4.95	6.55
1.5 x 1	3.11	3.39	5.25

**Available in many other sizes. Most products are available in 10K, 14K, & 18K yellow, white, red, and green gold, sterling silver, fine silver, palladium & platinum, 14K & 18K white gold with Palladium.

Flat Wire

APPROXIMATE WEIGHT PER FOOT IN DWT

MM	10K	14K	18K	**Available in many other sizes. Most products are available in 10K, 14K, & 18K yellow, white, red, and green gold, sterling silver, fine silver, palladium & platinum, 14K & 18K white gold with Palladium.
10 x 1.5	33.51	37.95	45.65	
10 x 1	22.36	25.31	30.45	
8 x 2.5	44.65	50.57	60.84	
8 x 2	35.74	40.47	48.75	
8 x 1.5	26.81	30.36	36.53	
8 x 1	17.89	20.26	24.37	
7 x 2.5	39.09	44.26	53.25	
7 x 2	31.27	35.41	42.60	
7 x 1.5	23.47	26.57	31.97	
7 x 1	15.66	17.74	21.33	
6 x 2.5	33.51	37.95	45.65	
6 x 2	26.81	30.36	36.53	
6 x 1.5	20.13	22.79	27.41	
6 x 1	13.43	15.21	18.29	
5 x 2.5	27.93	31.63	38.04	
5 x 2	22.36	25.31	30.45	
5 x 1.5	16.78	19.00	22.85	
5 x 1.25	14.00	15.84	19.05	
5 x 1	11.20	12.69	15.25	
5 x .75	8.41	9.52	11.45	
4.5 x 2	20.13	22.79	27.41	
4.5 x 1.5	15.11	17.10	20.57	
4.5 x 1	10.08	11.41	13.73	
4 x 3	26.81	30.36	36.53	
4 x 2.25	20.13	22.79	27.41	
4 x 2	17.89	20.26	24.37	
4 x 1.5	13.43	15.21	18.29	
4 x 1.25	11.20	12.69	15.25	
3.5 x 2.5	19.56	22.15	26.64	
3.5 x 2	15.66	17.74	21.33	
3.5 x 1.5	11.76	13.31	16.01	
3.5 x 1	7.86	8.89	10.69	
3 x 2.5	16.78	19.00	22.85	
3 x 2	13.43	15.21	18.29	
3 x 1.5	10.08	11.41	13.73	
3 x 1.25	8.41	9.52	11.45	
3 x 1	6.75	7.63	9.17	
3 x .75	5.07	5.74	6.89	
2.5 x 2	11.20	12.69	15.25	
2.5 x 1.5	8.41	9.52	11.45	
2.5 x 1.25	7.02	7.95	9.55	
2.5 x 1	5.63	6.36	7.65	
2.5 x .75	4.23	4.79	5.75	
2 x 1.5	6.80	7.63	9.17	
2 x 1.25	5.63	6.36	7.65	
2 x 1	4.51	5.10	6.13	
2 x .75	3.40	3.84	4.61	
1.5 x 1	3.40	3.84	4.61	
1.5 x .75	2.56	2.89	3.47	

Square Wire

APPROXIMATE WEIGHT PER FOOT IN DWT

MM	10K	14K	18K	**Available in many other sizes. Most products are available in 10K, 14K, & 18K yellow, white, red, and green gold, sterling silver, fine silver, palladium & platinum, 14K & 18K white gold with Palladium.
6 x 6	83.75	90.96	109.95	
5 x 5	58.25	61.25	74.75	
4 x 4	36.75	40.44	48.00	
3.5 x 3.5	27.95	30.10	35.00	
3 x 3	21.10	22.80	27.36	
2.5 x 2.5	13.92	15.84	19.75	
2.25 x 2.25	10.95	12.84	15.75	
2 x 2	9.55	10.08	12.75	
1.75 x 1.75	7.10	8.25	9.36	
1.5 x 1.5	5.10	5.70	6.84	
1.25 x 1.25	3.95	4.25	4.80	
1 x 1	2.30	2.55	3.10	
.75 x .75	1.40	1.50	1.70	

SIZING STOCK, WIRE, SHEET & TUBING

Sheet & Plate - Gold, Silver, Platinum & Palladium

GA	MM	INCH	10K	14K	18K	STERLING
8	3.26	0.128	15.30	17.30	20.70	13.95
9	2.91	0.114	13.80	15.60	18.50	12.48
10	2.59	0.102	12.20	13.80	16.50	11.10
11	2.31	0.091	10.95	12.40	14.50	9.96
12	2.05	0.081	9.70	11.10	12.80	8.92
13	1.83	0.072	8.70	9.83	11.55	7.88
14	1.63	0.064	7.75	8.75	10.30	7.02
15	1.50	0.060	7.26	8.28	9.44	6.39
16	1.45	0.057	6.90	7.80	9.25	6.24
17	1.29	0.051	6.10	6.89	8.10	5.80
18	1.15	0.045	5.45	6.16	7.25	4.92
19	1.02	0.040	4.85	5.49	6.45	4.43
20	0.91	0.036	4.35	4.90	5.80	3.94
21	0.81	0.032	3.85	4.37	5.15	3.53
22	0.72	0.028	3.41	3.86	4.53	3.06
23	0.64	0.025	3.04	3.44	4.08	2.74
24	0.57	0.023	2.68	3.03	3.55	2.40
25	0.50	0.020	2.42	2.74	3.21	2.20
26	0.46	0.018	2.16	2.45	2.88	2.00
27	0.40	0.016	1.94	2.17	2.55	1.77
28	0.36	0.014	1.71	1.93	2.26	1.53
29	0.32	0.013	1.50	1.68	1.98	1.30
30	0.29	0.011	1.34	1.52	1.79	1.20
31	0.26	0.010	1.22	1.38	1.60	1.12

**Available in many other sizes. Most products are available in 10K, 14K, & 18K yellow, white, red, and green gold, Sterium Plus, fine silver, palladium & platinum, 14K & 18K white gold with Palladium.

Laser Wire for Soldering

GOLD / PLATINUM 1 DWT MIN. - SILVER 1 T/OZ. MIN.
APPROXIMATE WEIGHT PER FOOT IN DWT

GA	MM	INCH	10K	14K	18K	PLATINUM	STERLING
32	0.20	0.008	-	0.082	0.096	0.136	0.07
34	0.15	0.006	-	0.046	0.054	0.075	0.05

**Available in many other sizes. Most products are available in 10K, 14K, & 18K yellow, white, red, and green gold, Sterium Plus, fine silver, palladium & platinum, 14K & 18K white gold with Palladium. 10K is not available in pink or green.

Round Tubing

MIN. 3" / MAX. 24"
APPROXIMATE WEIGHT PER FOOT IN DWT

Light .010" - 30 GA

NO PINK OR GREEN GOLD TUBING.

WALL THICKNESS	ORDER NUMBER	O.D. MM/INCH	I.D. MM/INCH	14K DWT/FT	INSERT WIRE
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 / .100"	2.05 / .081"	4.60	13 GA
2.25 L		2.25 / .089"	1.75 / .069"	4.10	14 GA
2.05 L		2.05 / .081"	1.55 / .061"	3.80	15 GA
1.80 L		1.80 / .071"	1.30 / .051"	3.25	17 GA
1.60 L		1.60 / .063"	1.10 / .043"	2.85	18 GA
1.43 L		1.43 / .056"	.93 / .037"	2.50	20 GA
1.25 L		1.25 / .049"	.75 / .030"	2.10	21 GA
1.13 L		1.13 / .044"	.63 / .025"	1.85	23 GA
1.00 L		1.00 / .039"	.50 / .020"	1.60	25 GA

Medium .015" - 26 GA

18K WHITE WITH PALLADIUM ONLY. 18K WHITE WITHOUT PALLADIUM NOT AVAILABLE.

WALL THICKNESS	ORDER NUMBER	O.D. MM/INCH	I.D. MM/INCH	14K DWT/FT	INSERT WIRE
5.80 M		5.80 / .228"	5.00 / .197"	16.70	5 GA
4.80 M		4.80 / .189"	4.00 / .157"	13.26	7 GA
3.75 M		3.75 / .148"	2.95 / .116"	10.65	9 GA
3.30 M		3.30 / .130"	2.50 / .098"	9.10	11 GA

Heavy .020" - 24 GA

WALL THICKNESS	ORDER NUMBER	O.D. MM/INCH	I.D. MM/INCH	14K DWT/FT	INSERT WIRE
3.13 H		3.13 / .123"	2.13 / .084"	10.47	12 GA
2.85 H		2.85 / .112"	1.85 / .073"	9.26	14 GA
2.50 H		2.50 / .098"	1.50 / .059"	7.90	15 GA
2.25 H		2.25 / .089"	1.25 / .049"	6.88	17 GA
2.00 H		2.00 / .079"	1.00 / .039"	5.93	19 GA

**Available in many other sizes. Most products are available in 14K & 18K yellow, white, red, and green gold, Sterium Plus, 14K white gold with or without Palladium, and 18K white gold with Palladium.

SCAN TO
VIEW
SIZING
STOCK,
WIRE,
SHEET &
TUBING



PRODUCT CONVERSION: 18 GA = 1MM = .040 INCHES. TO CONVERT (INCH) TO MM DIVIDE BY .04. SQUARE TUBING, STEP BEZEL AND BEZEL STRIP ARE ALSO AVAILABLE.

BULLION - GOLD & SILVER

United PMR offers an assortment of bullion Gold & Silver products. Our Fine Gold and Fine Silver bars are certified and stamped with a guaranteed purity of 999.9 and are available in an assortment of sizes to meet the budget and need of a wide array of consumers. Other products are also available including monetary bullion.



**COMEX FINE GOLD APPROVED
1 TROY OZ. GOLD BARS**



**INVESTMENT GOLD
& SILVER BARS**



GOLD & SILVER COINS



SCAN TO
VIEW
GOLD &
SILVER
BULLION



PRECIOUS METAL REFINING

United is the largest US-owned full service primary refiner for **GOLD, SILVER, PLATINUM, and PALLADIUM** in the nation. We specialize in refining for the jewelry industry, processing everything from gold scraps to polishing sweeps and other jewelry manufacturing byproducts.

From the smallest to the largest karated scrap lot, our advanced technology provides our customers the maximum in returns with the most competitive charges. We offer prompt service and numerous settlement options including check, wire transfer, ACH, fine gold and coins as well as product returns including: casting grains, master alloys, wire, sizing stock, sheet, tube and solder available in gold, silver, platinum and palladium.



MATERIALS WE PROCESS

- | | |
|-------------------------|---------------------|
| Karated Scrap | Polishings |
| Dental Scrap | Filings & Grindings |
| Stone Removal | Tools |
| Bench Sweeps | Carpet |
| Scrap Silver | Floor Sweeps |
| Clay Graphite Crucibles | |

PAYMENT OPTIONS

Various payment options are available to our refining customers including: wire transfer, ACH, check or credit towards product orders. Many jewelry customers exchange refining for products such as solder, sizing stock, casting grain, master alloys as well as fine gold casting grain.

LOW GRADE MATERIALS

United PMR specializes in refining low grade materials for the jewelry industry. We process and refine jewelry manufacturing byproducts such as:

- | | | |
|---------------------|-------------------------|--------------------|
| Polishings | Floor Sweeps | Sink Trap Material |
| Filings & Grindings | Blower Sweeps | Carpeting |
| Bench Sweeps | Clay Graphite Crucibles | And More... |

RECOVERING PRECIOUS METALS

At United PMR, these low grade materials are processed to recover precious metals. Turnaround times vary depending on the material sent in. For a complete schedule, visit our FAQ's page.

Retailers who offer repair services also utilize our low grade refining services. Moving to a new location? Consider sending in the carpeting from your workshop for refining. Bench sweeps, blower sweeps from the polishing machines, gloves, floor sweeps, etc. United will send you a shipping container you can use to send in this material for refining and precious metal recovery.

STONE REMOVAL

Accurate: Weighing Your Lot

Once your merchandise is received, United takes great care in the accuracy of weighing your lot. Your precious metals and stones are always under the surveillance of a video security camera to protect your returns.



Safe: Gemstone Separation & Frosting Available

This non-destructive method of stone removal using a metal dissolving process allows for a safe return of your Diamonds, CZ's, Moissanite and most harder colored stones.



Fast: Cleaning & Inspection

After the gemstone removal process is complete, your stones are carefully cleaned, inspected, weighed and packaged for shipping.



FREQUENTLY ASKED QUESTIONS

What do I need to do if I want to send in scrap to be refined and have never worked with United Precious Metals before?

The first thing you need to do is to provide us with your business information so that we can send you the proper registration forms for compliance review and approval. These forms can be requested by calling us at 1-800-999-3463. We can email or fax you the needed documents to complete and return to us. These forms are required by the government to ensure our practices are ethical. Once we have this documentation we can create an account for you to do business with United upon approval from our compliance department.

What things are important for your refiner to know?

In order for us to process your material to give you back the best return we need as much information as you can provide about the material you are sending in. We provide you a packing list on our website or you can call 1-800-999-3463 and we can email or fax you the form. The more information you fill in on this document the better we can process your material to your specific requirements. Please be sure to clearly print your name, contact information, phone number, and your weights at shipping. We will verify the information in our receiving department when we receive your shipment.

Does United Precious Metal Refining, Inc. extend terms to its customers?

United PMR does have terms available to purchase products. A credit application is required for these terms and is available on our website at <https://secure.unitedpmr.com/login.php> or you can call 1-800-999-3463 and we can email or fax the application.

How long does it take to process my material?

The type of material will determine how long it takes to process. Please refer to the following schedule:

- High Grade Gold Scrap – 1-2 business days
- High Grade Silver Scrap – 7-10 business days
- High Grade Platinum / Palladium – 5-7 business days
- Bench Sweeps / Filings – 7-10 business days
- Polishing Sweeps – 15 business days
- Floor/Blower Sweeps – 15 business days

Is there a minimum amount of material that I need to have before sending in my material for processing?

United PMR does not have a minimum quantity requirement however there are minimum charges. The basic rule of thumb is that you should wait until you have accumulated as follows before sending your material in for processing:

- High Grade Gold Scrap – 1 troy ounce or 20 DWT
- High Grade Silver Scrap – 30 troy ounces
- High Grade Platinum / Palladium – ½ troy ounce
- Polishing / Blower Sweeps – 5 lbs.

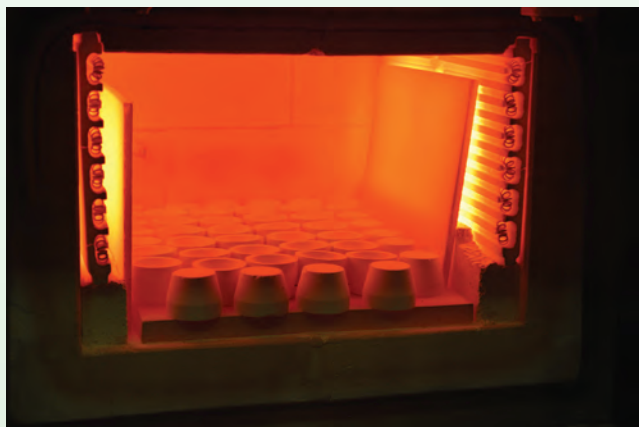
How can I get additional information?

You can call our office at **1-800-999-3463** or **+1-716-683-8334** to speak to one of our representatives who can answer any questions you may have. Our goal is for you to have a great experience, so please contact us if you have any questions.

ANALYTICAL SERVICES

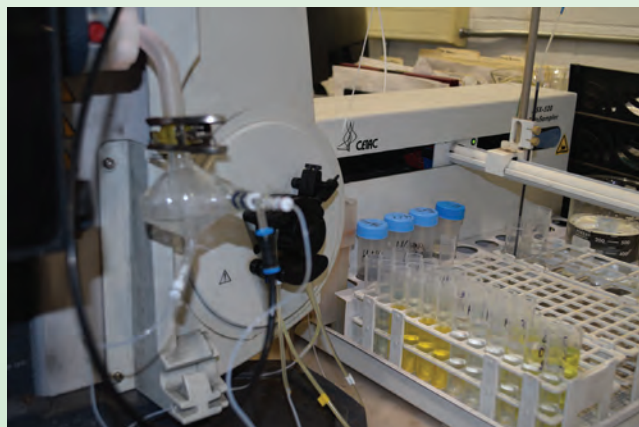
Our refining customers as well as our product customers benefit from United's advanced analytical services laboratory. Fire assay, x-ray analysis and ICP are all used to detect payable metals in a refining lot and as quality control so you know each jewelry manufacturing product you buy from United is pure and free of any dangerous metals like cadmium.

For jewelry manufacturers, United's lab offers services like Plating Thickness Testing, Vickers Hardness Testing and Macbeth Color Measuring. These quality control tests help manufacturers maintain their standards when it comes to ensuring consistent results.



FIRE ASSAY

The fire assay procedure is an age-old practice and is most widely accepted as the standard in the jewelry industry when determining the gold and silver content. Making United superior with our speed and accuracy is our state-of-the-art analytical department. We perform three separate fire assays with each individual lot. To insure the maximum returns, we utilize our two-step process of fire assaying and X-ray Fluorescence.



ICP

The ICP equipment is a sophisticated high precision instrument used to measure any combination of metals to parts-per-million levels of accuracy. Extremely small traces of metals can be detected using this equipment. At United, we use the ICP equipment to determine all precious metals content in refining lots to parts-per-million levels so our customers can get the maximum return on their refining materials. All Platinum Group metals and alloys are also analyzed using the ICP equipment.



MACBETH COLOR MEASURING

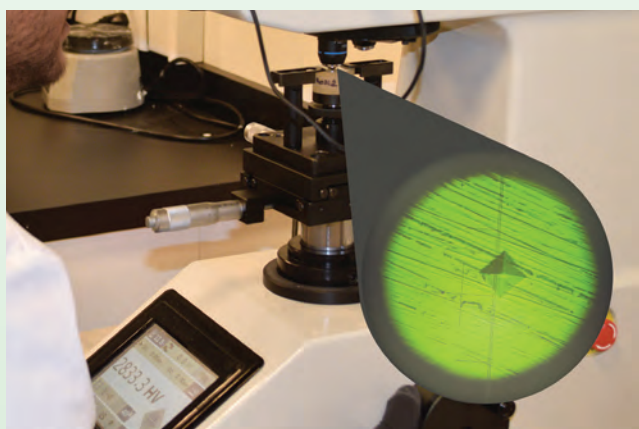
The Macbeth Color measuring equipment is used to precisely quantify or match the colors for an alloy. Using this equipment, we are able to duplicate a specific color required by our customers or differentiate between different tones of yellow and white colored alloys.

ANALYTICAL SERVICES



PLATING THICKNESS

Plating Thickness or Precious Metal Thickness on Gold or Silver jewelry articles can be precisely measured by one of the non-destructive XRF pieces of equipment. Rhodium plating thickness can be measured with high accuracy using this equipment.



VICKERS HARDNESS

At United, we strive to provide our customers with products with superior and unique properties. The Vickers Hardness Testing data aids in the development of new alloys and products and the effect of the new alloying elements. All sheet and fabricated products are tested for their hardness to ensure proper quality.



X-RAY FLUORESCENCE

The X-ray fluorescence is a non-destructive process and hence, it is used for applications where there is a need to maintain the integrity of the sample. All raw materials and products such as alloys, solders, sterling silver and gold bearing alloys are first tested in X-Ray Fluorescence equipment. At United, an analysis using XRF is done using three different kinds of XRF equipment where each instrument specializes in measuring a specific combination of metals.

RESEARCH & DEVELOPMENT LAB

Our state-of-the-art research and development lab was designed in 2019 and construction completed in early 2020 allowing for more in-house development and testing of our jewelry products. Our team of metallurgists alongside our technical department are able to now take a product from concept to casting and finishing – all done in-house to ensure a user-friendly experience for our customers.

In addition to the metallurgists and tech team, United employs a jeweler who is able to test products in our R&D Lab. From casting to soldering and finishing, we can test the metals throughout every step of the process.



A collage of various gold and silver bullion products. It includes three small packaged items at the top, several gold bars of different sizes, a stack of silver bars, a large roll of silver wire, and several gold and silver coins. The items are arranged on a dark background with a gold-colored textured strip at the bottom.

This image shows a full page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, leaving small margins at the top and bottom. There is no handwriting or other markings on the paper.

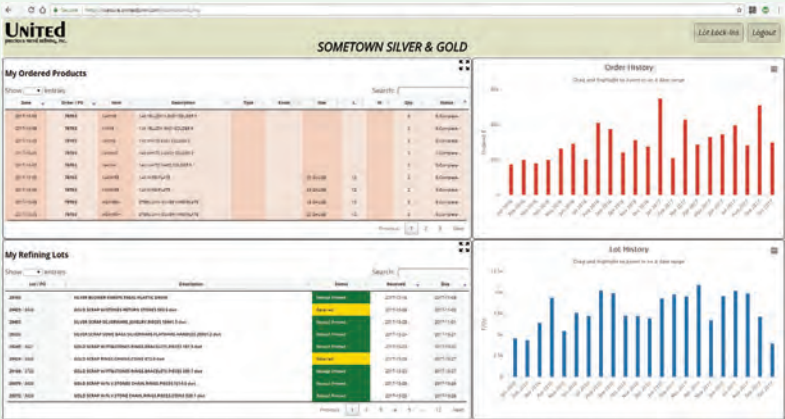
STAY CONNECTED

CUSTOMER ACCOUNT PORTAL (CAP)

We make it easy to have the information you need at your fingertips. Simply log on to our web-based Customer Account Portal (CAP) by visiting www.UnitedPMR.com. It's never been easier to access your account information.

The CAP can be accessed using a desktop, laptop computer or your mobile device through our website:
www.UnitedPMR.com

PRODUCT ORDERS
PRODUCT HISTORY
REFINING LOTS
REFINING HISTORY
LOT LOCK-INS & MORE!



CUSTOMER APP FOR IOS AND ANDROID

We published an app that all types of customers will find useful. Whether you want to check on live precious metal prices, calculate the value of your scrap gold, or find the right product for your casting, fabrication, or soldering needs, you will love having this app just a tap away.

Our app is currently available for FREE (and without any ads) for the iPhone, iPad, iPod Touch, and Android devices.

Main Features

- Check live precious metal spot prices
- Browse United's catalog of ready-to-use grains, master alloys for casting or fabrication, cadmium-free solders and solder master alloys
- Estimate value of scrap gold based on market price, karat and average assay percentages
- Mobile chat support

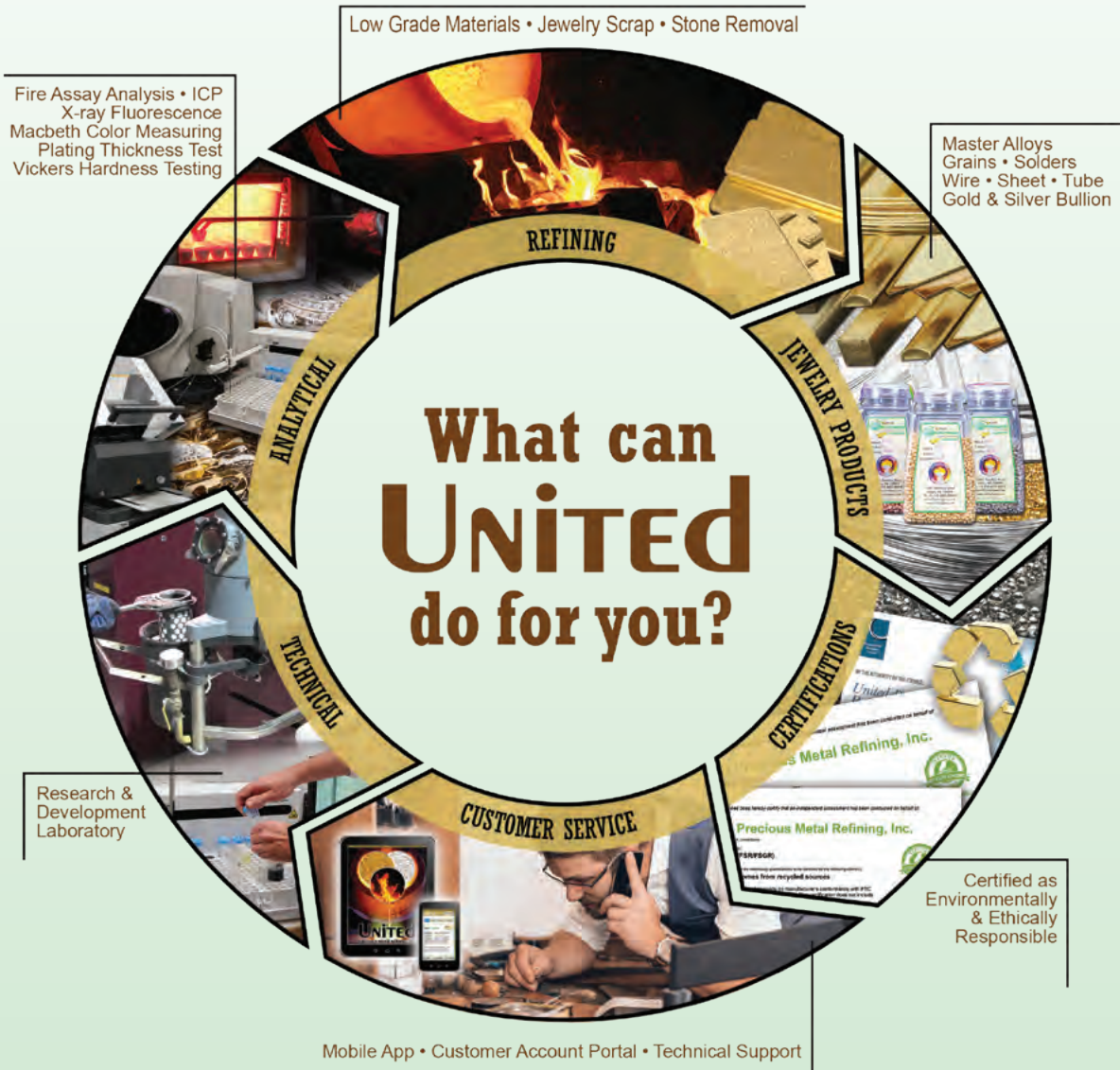


SOCIAL MEDIA



United

PRECIOUS METAL REFINING, INC.



A GLOBAL SUPPLIER:

USA • BRAZIL • CANADA • CHILE • CHINA • COLOMBIA • ENGLAND • HONG KONG • INDIA • ISRAEL • ITALY
MEXICO • PERU • SINGAPORE • S. KOREA • S. AMERICA • SRI LANKA • TAIWAN • THAILAND • TURKEY • UAE

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Certified as Environmentally & Ethically Responsible

