

JEWELER'S REFERENCE GUIDE

CONVERSION CHART WEIGHTS & MEASURES		
TO CONVERT FROM...TO	MULTIPLY	
14K Weight.....10K	0.89	
14K Weight.....18K	1.20	
Carats.....Grains	3.08647	
Carats.....DWTs	.12860	
Carats.....Grams	.2	
Centimeters.....Inches	.3937	
Cubic Centimeters.....Cu. in.	0.061023	
Cubic Centimeters.....Ounces fl. (US)	.0338	
Cubic Centimeters.....Ounces fl. (Canada)	.0352	
Cubic Feet.....Cu. Cm.	28.317	
Cubic In.....Cu. Cm.	16.3872	
DWTs.....Carats	7.778	
DWTs.....Grams	1.5552	
DWTs.....Ounces,Troy	.05	
Feet.....Cm	30.4801	
Feet.....Meters	.30480	
Gallons, (Canada).....Cu. Cm.	4546.1	
Gallons, (US).....Cu. Cm.	3785.4	
Grains.....Grams	.06480	
Grams.....Carats	5	
Grams.....Grains	15.4324	
Grams.....DWTs	.6430185	
Inches.....Cm	2.54001	
Inches.....Millimeters	25.40	
Kilograms.....Ounces,Troy	32.1507	
Kilograms.....DWTs	643.014	
Liters.....Gals. (Canada)	.21998	
Liters.....Gals. (US)	.26418	
Liters.....Oz. (Canada)	35.1961	
Liters.....Oz. (US)	33.8148	
Meters.....Feet	3.2808	
Meters.....Inches	39.37	
Millimeters.....Inches	.03937	
Ounces, Avdp.....Oz. Troy	.91146	
Ounces, Avdp.....Grams	28.3495	
Ounces, Troy.....Oz. Adp	1.0971	
Ounces, Troy.....Grams	31.1035	
Ounces FL. (Canada).....Cu. Cm.	28.4130	
Ounces FL. (US).....Cu. Cm.	29.5737	
Pounds, Avdp.....DWTs	291.666	
Pounds, Avdp.....Ounces,Troy	14.583	
Pounds, Avdp.....Grams	453.592	
Quarts (Canada).....Cu. Cm.	1136.522	
Quarts (Canada).....Liters	1.13649	
Quarts (US).....Cu. Cm.	946.359	
Quarts (US).....Liters	.94633	
Square Centimeters.....Sq. In.	.15500	
Square Inches.....Sq. Cm.	6.45163	
Square Inches.....Sq. MM	645	
Square MM.....Sq.In.	.0516	

THE TROY SYSTEM	
1 Troy Ounce	= 31.1033 Grams
1 Troy Ounce	= 480 Grains
1 Troy Ounce	= 20 Pennyweight (DWT)
1 Troy Pound	= 12 Troy Ounces
12 Troy Ounces	= 1 Pound Troy
14.5833 Troy Ounces	= 1 Pound Avoirdupois
0.9114 Troy Ounces	= 1 Ounce Avoirdupois
32.15 Troy Ounces	= 1 Kilogram
16 Avdp Oz.-7000 Grains	= 1 Avdp Pound
Avdp weight x .823	= Troy Weight
1 Oz. Avdp	= .91 Troy Ounce
1 Pound Avdp	= 14.58 Troy Ounce
1 Gram	= 5.3 Karats (Roman)
1 Gram	= 15.432 Grains
1 Gram	= 0.0643 Pennyweight (DWT)
1 Gram	= 0.3215 Troy Ounce
1.5552 Grams	= 1 Pennyweight (DWT)
1.000 Grams	= 1 Kilogram
8.3495 Grams	= 1 Ounce Avoirdupois
24 Grains	= 1 Pennyweight (DWT)
5.760 Grains	= 1 Pound Troy
15.432 Grains	= 1 Kilogram
437.5 Grams	= 1 Ounce Avoirdupois
7.000 Grains	= 1 Pound Avoirdupois
1 Grain	= 0.0648 Grams
1 Pennyweight	= 24 Grains
1 Pennyweight	= .05 Troy Ounces
20 Pennyweight	= 480 Grains
20 Pennyweight	= 1 Troy Ounce
240 Pennyweight (DWT)	= 1 Pound Troy
643.01 Pennyweight (DWT)	= 1 Kilogram
18.2291 Pennyweight (DWT)	= 1 Ounce Avoirdupois
291.666 Pennyweight (DWT)	= Pound Avoirdupois
1 Kilogram	= 2.68 Pounds Troy
1 Kilogram	= 35.2740 Ounces Avoirdupois
1 Kilogram	= 2.2046 Pounds Avoirdupois

COMPARATIVE GAUGE TABLE					
Fractional Inch	Decimal Inch	MM	B&S Gauge	DIAMOND SIZE	
				Point	Fraction
1/100	.010	0.25	30		
	.011	0.28	29		
	.012	0.30	28		
	.014	0.36	27		
1/64	.016	0.40	26		
	.018	0.46	25		
	.020	0.50	24		
	.022	0.56	23		
	.024	0.60			
	.025	0.64	22		
	.028	0.70	21		
	.030	0.75			
1/32	.031	0.80		.003	1/300
	.032	0.82	20		
	.035	0.90			1/250
	.036	0.91	19		
	.040	1.00	18	.005	1/200
	.043	1.10			1/150
	.045	1.14	17		
3/64	.047	1.20			1/125
	.049	1.25			
	.051	1.30	16	.01	1/100
	.055	1.40		.0125	
	.057	1.45	15		
	.059	1.50		.015	1/64
1/16	.063	1.60	14	.02	1/50
	.066	1.70		.024	
	.069	1.75			
	.071	1.80		.027	
	.072	1.83	13		
	.075	2.00		.03	1/32
5/64	.079	2.00			
	.081	2.06	12		
	.083	2.10		.04	1/25
	.087	2.20			
	.089	2.25			
	.091	2.30	11	.05	1/20
3/32	.094	2.40			
	.098	2.50		.06	1/16
	.102	2.60	10	.07	
	.106	2.70		.08	
7/64	.108	2.75			
	.114	2.90	9	.10	1/10
	.118	3.00		.11	
1/8	.125	3.10		.12	1/8
	.128	3.20	8	.13	
	.138	3.50		.16	
	.144	3.66	7		
	.145	3.70		.18	
	.148	3.75			
	.149	3.80		.20	1/5
5/32	.156	4.00		.25	1/4ct.
	.162	4.12	6		
	.167	4.25			
	.173	4.30		.33	1/3ct.
	.177	4.50			
	.182	4.60	5	.40	3/8ct.
3/16	.187	4.75			
	.196	5.00		.50	1/2ct.
	.204	5.18	4		
	.207	5.25			
	.217	5.50		.60	5/8ct.
	.226	5.75	3		
	.236	6.00		.75	3/4ct.
	.246	6.25			
1/4	.250	6.50	2	1.00	1ct.
	.2756	7.00			1 1/4ct.
		7.50	1		1 1/2ct.
5/16	.3125	7.94			
	.3150	8.00			2ct.
	.3346	8.50			2 1/4ct.
	.3543	9.00			2 1/2ct.
	.3740	9.50			3ct.
3/8	.375	9.53			
	.3937	10.00			3 1/2ct.
	.4134	10.50			3 3/4ct.
	.4331	11.00			4ct.
7/16	.4375	11.113			
1/2	.500	12.700			
9/16	.5625	14.288			
5/8	.625	15.875			
11/16	.6875	17.462			
3/4	.750	19.500			
13/16	.8125	20.638			
7/8	.875	22.225			
15/16	.9375	23.812			
1	1.0	25.400			

ANNIVERSARIES

1	Gold	13	Citrine	25	Silver
2	Garnet	14	Opal	30	Pearl
3	Pearls	15	Ruby	35	Emerald
4	Blue Topaz	16	Peridot	40	Ruby
5	Sapphire	17	Watches	45	Sapphire
6	Amethyst	18	Cat's Eye	50	Gold
7	Onyx	19	Aquamarine	55	Alexandrite
8	Tourmaline	20	Emerald	60	Diamond
9	Lapis Lazuli	21	Iolite	65	Star Sapphire
10	Diamond	22	Spinel	75	Diamond
11	Turquoise	23	Imperial Topaz		
12	Jade	24	Tanzanite		

DEFINITIONS

KARAT: a unit for expressing proportion of gold in an alloy equal to 1/24 part of pure gold. Thus 14 karat gold is 14/24 pure gold with another metal making up the rest. The usual alloy metals are silver, copper and zinc. Nickel is used in white gold.

10k = 41.6% gold 58.4% alloy
 14K = 58.3% gold 41.6% alloy
 18K = 75.0% gold 25.0% alloy
 24K = 100% gold

GOLD COLORS: yellow, white, pink and green are produced by variations in alloy.

Green = Silver and Zinc
 Pink = Copper
 White = Nickel

Yellow = Silver, Zinc, and Copper

GOLD FILLED: layer (or layers) of gold alloy joined to a base metal alloy by soldering or welding it and then rolling or drawing to the thickness required. The gold content is 1/20 or more of the total weight.

GOLD PLATE OR ELECTRO-PLATE: fine gold electrolytically deposited onto base metal. The thickness of gold may range from 7 to 100 millionth of an inch.

ROLLED GOLD PLATE: similar to gold filled, but of lower quality. The gold content is less than 1/20 the total weight.

STERLING SILVER: 92.5% silver 7.5% copper. (Coin silver contains 90% silver and 10% copper). The word comes from the "Easterlings," North German merchants who formed a Guild in London during the 13th century, minting coins of uniform weight and excellence.

NICKEL SILVER (OR GERMAN SILVER): contains no silver. It is a combination of nickel, copper and zinc which has a silver color.

JEWELERS PLATINUM: a heavy silver-white metal of 90% platinum and 10% iridium. The iridium acts as a hardening agent. Named by Spanish explorers in Columbia from the word "platina" meaning "silver of little value."

JEWELERS PALLADIUM: a silver-white metal of 95% palladium and 5% ruthenium. The ruthenium acts as a hardening agent.

PENNYWEIGHT (DWT): 1/20 of a troy ounce. The name originally applied to the weight of an Anglo-Norman penny.

TROY OUNCE: 10% heavier than the common avoirdupois ounce. There are 14.583 troy ounces in an avoirdupois pound. The name is derived from Troyes, France where the measuring system originated.

GOLD

- Gold was probably the second metal to be worked by early man, being discovered after copper. Quality gold work has been dated to 3000 BC.
- If all the gold ever found were cast into a single ingot it would only make a 20 yard cube weighing 12,000 tons.
- One ounce of gold can be flattened to a sheet that will cover a 100 square foot area or drawn to a wire almost a mile long. Gold can be made into foil that is thin enough for light to pass through it.
- Gold has a face-centered cubic crystal, similar to diamonds. It can be dissolved in several different chemical solutions.
- Soldering tools contaminated with white metals can burn pits into gold, platinum, silver, copper and brass.

GOLD PRICE HISTORY

YEAR	HIGH	LOW	YEAR	HIGH	LOW
1968	42.00	37.80	1989	417.15	356.20
1969	43.50	35.00	1990	422.75	345.85
1970	38.95	34.75	1991	403.70	343.50
1971	44.25	37.70	1992	359.50	330.25
1972	70.00	46.15	1993	407.25	326.50
1973	112.25	63.90	1994	397.50	370.25
1974	179.50	116.50	1995	396.75	324.25
1975	184.25	126.75	1996	417.00	367.50
1976	186.50	130.50	1997	369.75	283.00
1977	216.50	139.45	1998	314.50	277.70
1978	229.00	167.45	1999	326.25	252.90
1979	515.00	216.50	2000	316.60	263.00
1980	850.00	474.00	2001	292.85	250.20
1981	599.25	391.75	2002	348.30	277.80
1982	460.00	269.75	2003	417.25	319.75
1983	511.50	374.75	2004	455.75	373.50
1984	406.85	303.20	2005	537.50	411.50
1985	341.50	284.25	2006	725.75	522.50
1986	442.75	329.50	2007	841.75	608.30
1987	502.75	396.00	2008	1011.25	712.50
1988	485.30	394.20	2009	1212.50	810.00

Reducing the Karat of Gold
 Example: 20 dwts of 22k to 10k
 $20 \text{ dwts} \times 1.201 = 24.02 \text{ dwts of alloy}$

Reducing Factors

Karat on Hand	Karat Wanted	Factor for Alloy
24K	18k	.333
24k	14k	.714
24k	10k	1.400
22k	18k	0.221
22k	14k	0.571
22k	10k	1.201
18k	14k	0.286
18k	10k	0.800
14k	10k	0.400

(if unable to use chart above)
 Subtract the desired karat from the present karat. Multiply by weight of on hand to reduce. Divide by the karat desired.
 This equals the weight of alloy to use.

Example: 50 dwts of 22K down to 14k
 $(22-14)K \times 50 \text{ dwts} \div 14K = 25.57 \text{ dwts of alloy.}$

Raising the Karat of Gold
 Example: 50 dwts of 14k to 18k
 $50 \text{ dwts} \times .666 = 33.30 \text{ dwts of 24k}$

Raising Factors

Karat on Hand	Karat Wanted	Factor for Alloy
10K	14k	.400
10k	18k	1.333
10k	22k	5.952
14k	18k	0.666
14k	22k	3.964
18k	22k	1.976

(if unable to use chart above)
 Determine the weight of alloy contained in the present karat gold and divide it by the percentage of alloy in the desired karat.
 This indicates the total weight of the higher karat gold.
 Subtract the weight of the lower karat from the weight of the higher karat determined and the result is the amount of fine gold (24k) to be added to the lower karat.

HOW TO DETERMINE WEIGHTS OF METALS AND ALLOYS

USE THIS CONVERSION CHART TO CONVERT THE WEIGHT OF ONE METAL TO ANOTHER FOR CASTING OR CALCULATING A PRICE.
 EXAMPLE: STERLING RING AT 1.5 DWTS X 1.256 (14K YELLOW) = 1.88 DWTS IN 14K.

Sterling Silver

To Convert To	Multiply Wt By
Fine Silver	1.013
Coin Silver	0.995
10k Yellow Gold	1.112
14k Yellow Gold	1.256
18k Yellow Gold	1.497
22k Yellow Gold	1.704
24k Fine Gold	1.866
Platinum	20.62
18% Nickel Silver	0.841
Brass	0.846
Pewter	0.702

10k Yellow Gold

To Convert To	Multiply Wt By
14k Yellow Gold	1.130
18k Yellow Gold	1.346
22k Yellow Gold	1.529
24k Fine Gold	1.675
10k Green Gold	0.953
10k White Gold	0.957
Platinum	1.855
Palladium	1.037
Lead	0.982
Brass	0.732
Sterling Silver	0.898

14k Yellow Gold

To Convert To	Multiply Wt By
18k Yellow Gold	1.192
22k Yellow Gold	1.351
24k Fine Gold	1.481
14k Green Gold	1.087
14k White Gold	0.965
10k Yellow Gold	0.885
Platinum	1.642
Palladium	0.918
Lead	0.869
Brass	0.648
Sterling Silver	0.796

18k Yellow Gold

To Convert To	Multiply Wt By
18k White Gold	0.940
22k Yellow Gold	1.140
24k Fine Gold	1.250
14k Yellow Gold	0.839
Platinum	1.377
Lead	0.729
Brass	0.544
Sterling Silver	0.668

Platinum

To Convert To	Multiply Wt By
Palladium	0.559
5% Irid-Platinum	1.002
10% Irid-Platinum	1.004
Rhodium	0.583
Sterling Silver	0.485

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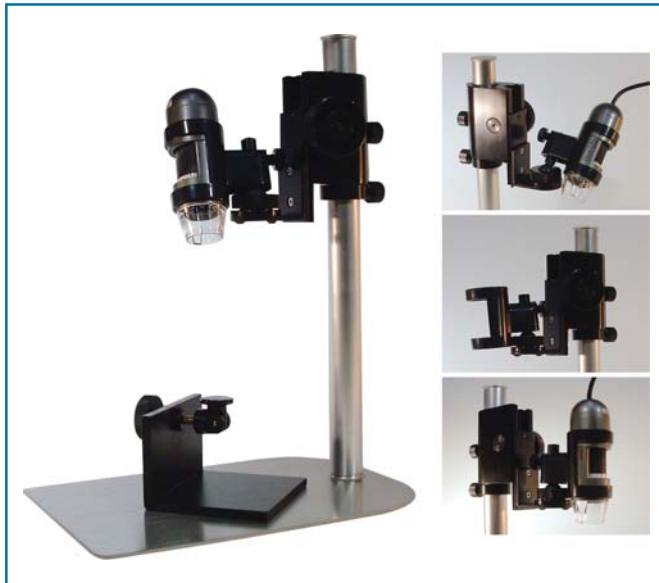
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Microscope and stand sold together.
T-1075...\$1494

The AD413T "Convertible" digital microscope model with interchangeable nozzle features comes with both a standard open faced nozzle as well as a sealed transparent cap nozzle designed to protect the lens and built in LED lights from dust, debris and moisture common to certain work environments. The removable nozzle feature also provides the user the option of increasing working distance when using the digital microscope without any nozzle installed, allowing for 60X-180X and up to 220X magnification (at 0.0-0.4 inch working distance) without coming into contact with the observed object.

The AD413T also has enhanced lighting for improved illumination.

Note: It is recommended that external lighting be applied when using the AD413T at 3.5 inch or greater working distance(s) (APPROXIMATELY 12X magnification or below).

The removable and interchangeable nozzle feature also allows the "AD" series of scopes to be receptive and compatible with current and future add-on feature upgrades including disposable nozzle covers, making it an ideal dermatology inspection device which can be used with approved resolution oils for detailed deep imaging. Dino-Lite digital microscopes are an affordable feature loaded portable magnification device designed for dedicated professional and general inspection applications. The 1.3MP resolution AD413T is also equipped with calibrated measurement and other standard features such as "Microtouch" shutter trigger, 8 built in LED lights with on/off, etc. found in previous AM4XX models. Included with each Dino-Lite digital microscope is a copy of the "DinoCapture" software, enabling you to "capture" either a photograph, video or time-lapsed video and perform measurement and other critical tasks.

Technical Specifications:

- * Resolution: 1280x1024 pixels
- * Interface: USB 2.0
- * Magnification: 12x~ 200x Variable Magnification
- * Achieves effective magnification values of up to 330x with digital zoom (only available in VGA mode 640*480)
- * Sensor: Enhanced Color CMOS
- * Video frame Rate: up to 30 frame-per-second, 15fps at 1.3M
- * Illumination: built-in 8 white LED's
- * LED on/off controlled by software
- * Save File format: BMP, JPG, AVI
- * Compatible Windows 2000/XP, Vista and most MAC OS (please verify MAC OS)
- * Accurate measurement features