

uniqua<sup>TM</sup>

Precise Precious Metallurgy.....

Legend:

- Metal
- Alkali metal
- Alkaline earth metal
- Transition metals
- Lanthanide
- Actinide
- Semimetal
- Nonmetal
- Chalcogens element
- Halogens element
- Noble gas

STANDARD STATE (25 °C, 101 kPa):  
Ne - gas  
Ga - liquid  
Fe - solid  
Po - synthetic

**METALOCHEM**<sup>TM</sup>

Precious Chemistry for the Pure World .....

infinium<sup>TM</sup>

*The Precious Metal Company*<sup>TM</sup>

uniqu<sup>al</sup>™

METALLOCHEM™

Precise Precious Metallurgy..... Precious Chemistry for the Pure World .....

**Infinium Precious Resources Ltd.** Is a leading Precious Metal Management organization with a philosophy and desire *"To Create Infinite Opportunities with Finite Resources"*. The Organization is vertically integrated in diversified precious metal management activities of Refining, Retail, E-waste management, Bullion & Coin Minting and Precious Metal Chemistry.

Under its brand name **METALLOCHEM™** the company brings to the world the finest quality of pure precious metal salts for a variety of industries and applications which are guaranteed for its **Purity and Fine Quality**.

The brand **uniqu<sup>al</sup>™** serves the world with finest quality of pure precious metal Anodes and Brazing Alloys for various applications and industries with a mark of **Purity and Fine Quality**.

**Industries: Electroplating, Steel, Copper, Jewellery, Automotive, Plumbing, Electrical, Refrigeration, A/C, etc.**

# Brazing Alloys

Uniqua products are manufactured as per BIS, EU, British, ASTM, Norms.

## The Standards

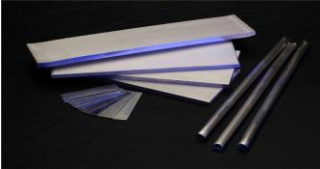


## The Technicals







## The Applications

Product	ISO 3677: B-Cu44ZnAg(Si)-690/810	DIN EN 1044	Nominal composition [wt-%]	Max. impurities [wt-%]	Melting range	Working temp	Density	Tensile strength		Elongation	Electrical Conductivity	Operating temp. of brazed joint	Wire	Rods	BRAZING INDUSTRY											
								S235	E295						Steel	Copper	Copper Alloy	Nickel	Nickel Alloys	Cemented Carbides	Automotive	Electrical	Plumbing	Refrigeration & A/C	Tools	
Uniqua B 2001	ISO 3677: B-Cu44ZnAg(Si)-690/810	AG 206	Ag 20; Cu 44; Zn 36	0.15	690 - 810 °C	810 °C	8.7 g/cm <sup>3</sup>	380 MPa;	430 MPa	25%	10.6 m/Ω mm <sup>2</sup>	-200 °C to +200 °C	Ø 1.0 - 1.5 - 2.0 mm	Ø 1.0 - 1.5 - 2.0 mm , 500 mm length	●	●	●	●	●	●	●	●				
Uniqua B 2501	DIN EN ISO 17672: Ag 225	AG 205	Ag 25; Cu 40; Zn 35		700 - 790 °C	780 °C	8.8 g/cm <sup>3</sup>	380 MPa	430 MPa	25%	-								●	●						
Uniqua B 2502	DIN EN ISO 17672: Ag 125	AG 108	Ag 25; Cu 40; Zn 33; Sn 2		680 - 760 °C	750 °C	8.7 g/cm <sup>3</sup>	360 Mpa	480 MPa	-	-								●	●						
Uniqua B 3001	DIN EN ISO 17672: Ag 130	AG 107	Ag 30; Cu 36; Zn 32; Sn 2		665 - 755 °C	740 °C	8.8 g/cm <sup>3</sup>	360 Mpa	480 MPa	-	-								●	●						
Uniqua B 3401	DIN EN ISO 17672: : Ag 134	AG 106	Ag 34; Cu 36; Zn 27.5; Sn 2.5		630 - 730 °C	710 °C	9.0 g/cm <sup>3</sup>	360 Mpa	480 MPa	12%	14.0 m/ Ω mm <sup>2</sup>								●	●	●	●	●			
Uniqua B 4001	DIN EN ISO 17672: : Ag 140	AG 105	Ag 40; Cu 30; Zn 28; Sn 2		650 - 710 °C	690 °C	9.1 g/cm <sup>3</sup>	350 Mpa	430 MPa	-	-								●	●						
Uniqua B 4502	DIN EN ISO 17672: : Ag 145	AG 104	Ag 45; Cu 27; Zn 25.5; Sn 2.5		640 - 680 °C	670 °C	9.2 g/cm <sup>3</sup>	350 Mpa	430 MPa	10%	13.0 m/ Ω mm <sup>2</sup>								●	●	●	●	●	●	●	
Uniqua B 4901	DIN EN ISO 17672: Ag 449	AG 502	Ag 49; Cu 16; Zn 23; Mn 7.5; Ni 4.5	0.30	680 - 705 °C	690 °C	8.9 g/cm <sup>3</sup>	-	-	-	4.0 m/ Ωmm <sup>2</sup>							●				●				
Uniqua B 5601	DIN EN ISO 17672: Ag 156	AG 102	Ag 56; Cu 22; Zn 17; Sn 5	0.15	620 - 655 °C	650 °C	9.5 g/cm <sup>3</sup>	350 Mpa	430 MPa	25%	7.0 m/ Ωmm <sup>2</sup>					●	●	●	●	●						
Uniqua B 6001	DIN EN ISO 17672: Ag 160	AG 402	Ag 60; Cu 30; Sn 10		600 - 730 °C	720 °C	9.8 g/cm <sup>3</sup>	390 Mpa	460 MPa	35%	8.7 m/ Ωmm <sup>2</sup>						●	●	●	●		●				
Uniqua C 9001	ASTM: B693	-	Ag 90; Ni 10		1534 °C	-	10.33 g/cm <sup>3</sup>	Annealed: 172 MPa	Worked: 290 MPa	-	78 % IACS						●									






## Anodes

Uniquel products are manufactured as per BIS, EU, British, ASTM, Norms.

PRODUCT	DETAILS											
PRODUCT	Base Metal	Density	Hardness	Metal Purity	Specs	Class	CAS No	Shape	Packing	Electroplating	Jewellery	Graphic Representation
Silver Anode (as Per IS 1959 Standard)	Silver (Ag)	10.5 gms/cc	Les than 40 HV-5	Ag - 99.95%, Cu < 0.03%, Others < 0.02%	as per IS 1959:1999 standards	Metallic	7440-22-4	As per client requirements	Bubble wrap	•	•	
P.V.D. Gold Anode	Gold (Au)	19.30 g·cm <sup>-3</sup>	216 Mpa Vickers	Au - 23 Kt & 24 Kt	--	Metallic	7440-57-5	As per client requirements	Bubble wrap	•	•	
PRODUCT	Base Metal	Material Quality	Pt layer thickness	Coating Methods	Shape	Type of Application	Specific current density	pH value (Bath)	Bath Temp	Electroplating	Jewellery	Graphic Representation
Platinised Titanium Anode	Titanium (Ti)	Grade 1	1 - 5 µm	Aqueous Bath	Expanded metal, sheet, pipe, rod, wire	Anode / Bipolar electrode	max. 75 A / dm <sup>2</sup>	0 - 11	max. 60 °C	•	•	

PRODUCT		DETAILS							APPLICATIONS (INDUSTRY)																							
PRODUCT	Introduction	Class	Mol Formula	Mol weight [g/mol]	Metal Content	Metal Purity	Cas No	Color / Form	Packaging	Electroplating	Electrical	Printing	Paint	Automobile	Hardware	Class	Photo Volatic (PV)	Jewellery	conductors	Chemical	Photograph	Medical Field	Ceramic glaze	Battery	Chemical	Electronic Equipments	Fabric	Concrete	Graphic Representation			
Silver Nitrate	Silver nitrate is an inorganic compound with chemical formula AgNO3. The Metallochem range of Silver Nitrate is available in white crystalline powder duly packed in 100 gms , 500 gms and 1000 gms Airtight PP bottle.	Inorganic Chemical / Specialty Chemical	AgNO3	169,87	63,5%	99,9%	7761-88-8	White Crystalline Powder	100gms , 500gms , 1000gms PP Bottle	•					•	•		•	•	•	•	•				•						
Silver Oxide	Silver Oxide is the chemical compound with the formula Ag2O and is used to prepare other silver compounds. We are instrumental in offering a comprehensive assortment of Silver Oxide to our clients. The Metallochem brand Silver Oxide is available in in form of Black or Brown Powder .		Ag2O	231,74	93,0%		20067-12-3	Black or Brown Powder																								
Silver Potassium Cyanide	Metallochem Silver Potassium Cyanide is a colorless crystalline compound which is highly soluble in water and free from nitrate.		KAg(CN)2	199,01	54,0%		506-61-6	White Crystalline Powder					•							•	•	•			•		•					
Gold Potassium Cyanide	Gold Potassium Cyanide is also commonly known as GPC or PGC , Potassium Dicyanoaurate or Potassium Auocynade. Our Gold Potassium cyanide is available in white crystalline form Which is non-hygroscopic .		Au(CN)2	288,13	68,3%		13967-50-5	White Crystalline Powder	2gms , 5gms , 10gms in Vacuum sealed Pouch and 100gms in PP Bottles	•	•									•												
Palladium Chloride	Palladium is usually found as a free metal, alloyed with others in the platinum group. We manufacture superior quality of Palladium Chloride which is commercially extracted from copper-nickel ores. Metallochem Brand Palladium Chloride comes In Red-Brown powder form packed in Air tight PP Bottle		PdCl2	177,3	60,0%		7467-10-1.	Red-Brown Powder	5gms , 10gms , 100gms PP Bottle	•	•				•													•	•			
Copper Sulphate	Copper sulphate is a blue crystalline powder or granulate which has the widest range of uses across the industries and processes. It slowly Effloresces in air. It can be easily dehydrated to its gray anhydrous form by heating, then changed by to crystals by adding water. It is soluble in water, methanol, slightly soluble in alcohol and-glycerol. Copper sulphate is a very versatile chemical with a extensive range of uses in many industrial processes and widely in Agricultural uses .	CuSO4	249,68	24,7%	7758-98-7	Bluish Crystalline Powder	5kg , 30kg Bags										•															

We also specialize in and offer Silver, Gold & Platinum Coins and Bars .....

DENOMINATION MATRIX		PRODUCT - BARS & COINS:											Graphic Representation	
		1 GM	2 GM	5 GM	8 GM	10 GM	20 GM	50 GM	100 GM	250 GM	500 GM	1000 GM	5000 GM	
<b>MINTED</b>	<b>METAL AND PURITY</b>													 
	GOLD 995	✓	✓	✓	✓	✓	✓	✓	✓					
	GOLD 999	✓	✓	✓	✓	✓	✓	✓	✓					
	SILVER 999			✓		✓	✓	✓	✓	✓	✓	✓		 
	PLATINUM 999			✓		✓	✓	✓						
<b>CASTED</b>	SILVER 999											✓	✓	
	PLATINUM 999								✓		✓			

- ▶ All Coins and Medallions carry a "Certificate of Authenticity" for metal purity and weight guarantee.
- ▶ Gold coins upto 995 purity and Silver coins upto 999 purity can be BIS Hallmarked, as per requirement.
- ▶ Alternate packing options available are: Certi-card type packing, Customized, Co-branded packing, etc.

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