The World of Metal Finishing

our know-how is your success

At a Glance

More than 60 years of IWG

The pioneering spirit of our founder, Walter Garhöfer, coupled with great commitment, curiosity, and decisionmaking power, created the basis of our successful company. Off-the-shelf products still have no place at IWG. Garhöfer's son, Werner Garhöfer, continued to develop IWG with his innovative ideas. Christian Garhöfer, the third generation of the family, has been running the company since 2012.

OUR HISTORY

IWG then...

Founded by Walter Garhöfer in Vienna, IWG initially focused exclusively on the development of non-precious metal electrolytes. The product range was continuously expanded, and precious metal electrolytes soon came to play a major role.
A milestone was reached in the early 1990s with the entry into the Asian market in Hong Kong.

1962

heute

Galvano Full-Service - with the Flexibility of a Family Business

The journey from a small laboratory for special electroplating chemicals to a full-service provider was marked by courage, investment, and the determination to think things through to their logical conclusion — and is confirmed every day by our customer projects.

Today, IWG stands for high-tech surface technology — and at the same time for the attitude of a family business: short decision-making processes, quick responses, genuine responsibility. The aim is to provide customized solutions that "fit like a tailor-made suit" for customers — technically sound, stable in production, and quickly available.

Our Team

The IWG team features employees with a wide variety of qualifications, experience, and mindsets. This diversity has great potential, a factor we consider a permanent part of our open and appreciative company culture. We respect, encourage, and support our staff at IWG to provide our customers the best results possible – every single day.

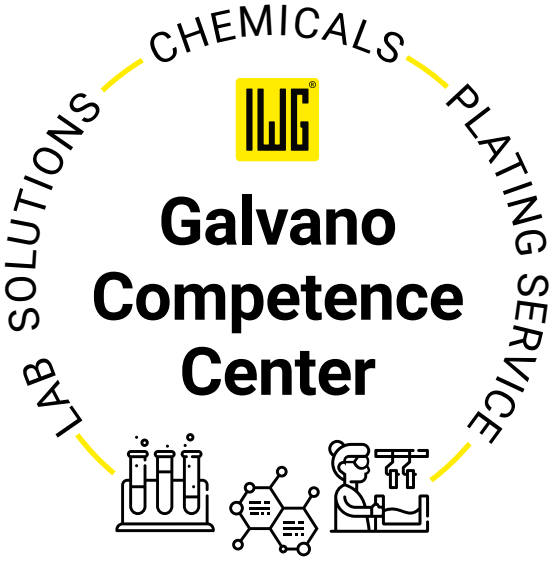
Galvano Competence Center

GALVANO COMPETENCE CENTER

Chemicals, Analytics and Contract Manufacturing - all from a Single Source

When electroplating technology demands the highest standards of corrosion resistance, skin compatibility, appearance, process stability, and reproducibility, it is often not a single factor that makes the difference, but rather the interaction between electrolyte, process control, and analysis.

This is exactly where the IWG Galvano Competence Center comes in: we combine our three service areas, IWG Plating Service, IWG Chemicals, and IWG Lab Solutions, to offer the complete spectrum of electroplating technology.



GALVANO COMPETENCE CENTER

Your Advantage

The combination of these three areas is unique in this form — because IWG not only coats, but also develops the chemicals used in-house, verifies them in the laboratory, and uses them on an industrial scale in a fully automated production plant.

One Galvano Competence Center - Three Areas

IWG Lab Solutions

We analyze your baths and examine them using state-of-the-art analysis equipment.

IWG Chemicals

Our product range includes more than 3,000 precious metal and non-precious metal electrolytes developed in our laboratories, as well as accessories.

IWG Plating Service

We offer more than 40 process baths in our fully automated contract electroplating facility. We test newly developed baths under real conditions in our test electroplating facility.

Recovery

We efficiently recover precious metals from used baths or rinse water, process them, or credit them directly to our customers' precious metal accounts.

AUSTRIA

TÜV AUSTRIA ZERTIFIZIERT
EN ISO 9001 20100183004221
EN ISO 14001 20104213011971
ISO 45001 20116213011972

THE IWG QUALITY PROMISE

Made in Austria

The quality of our products is paramount to our ISO certified company. No compromises!

Every single batch is checked before it leaves our Production Department. All our products are manufactured exclusively in our company head-quarters in Lower Austria – made in Austria.

OUR COMPETENCES

IWG Lab Solutions

IWG LAB SOLUTIONS

In-house Laboratory

Precise analysis is the basis for stable processes and consistent quality. In our in-house laboratory, we analyze all relevant bath parameters on a monthly basis — and at short notice if required — regardless of the bath size.

Bath analysis is included for IWG customers and covers both our own chemicals and baths from other manufacturers.

Your advantage: fast, well-founded decision-making, high process reliability, and economically optimized production.

IWG LAB SOLUTIONS

End-to-End Competence

We take a holistic approach to solutions — from the initial assessment to successful on-site implementation. When deviations occur, we analyze the plating system or the electrolytes, identify the causes, and optimize processes under realistic conditions. Thanks to the combined expertise of the Galvano Competence Center, chemicals are optimally formulated and then implemented directly at our customers' facilities.

Your advantage: rapid problem solving, practical implementation including on-site service, and sustainable quality assurance through to series production.

Our Services at a Glance

Analysis of your workpieces

using FIB-SEM electron microscope

Analysis of your electrolytes

using titration or ICP spectrometry

On-site service

We will be happy to visit you and advise you on trouble-shooting.

ANALYSIS PARK

State-of-the Art Analysis

IWG Lab Solutions work with state-of-the-art methods and equipment. We analyze your baths and examine the workpieces you produce at our site using the following measuring instruments:

- FIB-SEM electron microscope with EDX detector and TOF-SIMS mass spectrometry
- X-ray fluorescence measuring instrument
- CASS and SO2 test instruments
- separating instruments for grinding and sample preparation
- various optical microscopes and colorimeters
- ICP spectrometry
- AAS - atomic absorption spectrometry
- Autotitration
- Ion chromatography with mass spectrometry
- Gas chromatography with mass spectrometry
- UV spectrometry

TROUBLESHOOTING

Analysis of your Workpieces

For fast, non-destructive results, we use X-ray fluorescence (XRF) to quickly test components. When maximum detail is required, we analyse using FIB-SEM: an extremely precise method for examining layer structure, microstructure and interfaces. In addition, we ensure your quality with corrosion tests in our CASS and SO_2 test systems – for reliable statements about the resistance of your surfaces.

A SPECIAL HIGHLIGHT FOR YOU

TESCAN AMBER X FIB-SEM

We are now able to provide even more precise analyses than ever before. The Tescan Amber X is a unique combination of field-free, ultra-high resolution BrightBeam™ SEM optics and xenon plasma FIB. It enables the precise preparation and analysis of various applications. This level of analysis is unique in Austria.

TROUBLESHOOTING

Analysis of your Electrolytes

We conduct targeted analyses of your electrolytes to detect deviations, contaminants, and process-critical changes. Using state-of-the-art laboratory analysis, we identify potential causes of quality issues and develop concrete measures to stabilize and optimize your processes.

Your advantage: rapid identification of causes, quick problem resolution, well-founded recommendations for action, and sustainable process reliability.

Consulting and Problem Solving

Are your baths causing problems and no longer delivering the desired results? Do you need specific support with process optimisation?

We can help you quickly!

01

Initial Analysis
We record the initial situation in a structured manner: bath condition, process parameters, component geometry and fault pattern. We define clear target criteria using laboratory analysis.

02

Individual Solutions
We develop specific measures: bath corrections, additive control, anode management and pre-treatments. We provide specific instructions for implementation. The aim is to achieve stable quality with maximum process reliability.

03

On-Site Service
Our specialists also provide direct support at your plant – from troubleshooting to optimisation during ongoing operations. We supervise trials, train operating staff and document settings for reproducible results. If necessary, we also check peripherals such as rinsing technology, power supply or goods movement.

04

Continued Product Support
We ensure long-term stability through regular monitoring and optimisation of the baths. We proactively respond to changes in parts, requirements or throughput with adjustments.

OUR COMPETENCES

IWG Chemicals

IWG CHEMICALS

Electrolytes that work on a real scale

IWG Chemicals develops and optimizes electrolytes and process chemicals directly in our laboratories – with a clear focus on practicality. Tests are not only carried out on a laboratory scale, but can also be verified directly in our pilot plant or under real production conditions in our contract electroplating facility.

Your advantage: predictable results instead of uncertainties. Chemical development, scale-up, and industrial implementation are seamlessly integrated.

IWG CHEMICALS

The World of Precious Metals

We aspire to achieve the perfect surface — that's why we develop tailor-made solutions for every customer requirement. Whether for decorative finishes or demanding technical applications, we develop electrolytes for every requirement in our state-of-the-art laboratories.

79 Au

Aurega® Gold electrolytes

Our pure gold electrolytes and gold alloys, which can be used for both decorative and technical applications.

47 Ag

Arega® Silver electrolytes

Our silver electrolytes are suitable for decorative applications as well as for charging plugs and a wide range of electronic components.

45 Rh

Rhodega® Rhodium electrolytes

Our rhodium electrolytes scores highly with its particularly high abrasion resistance and excellent whiteness and tarnish resistance.

78 Pt

Platega® Platinum electrolytes

Pure or as a platinum alloy, it is an inexpensive alternative to pure rhodium with almost the same whiteness.

46 Pd

Pallega® Palladium electrolytes

Pure palladium electrolytes and palladium alloys are an ideal alternative to nickel. Visually very elegant, completely crack-free, and corrosion-resistant.

44 Ru

Ruthega® Ruthenium electrolytes

Our ruthenium baths and ruthenium alloys achieve a finish ranging from anthracite to deep black with high abrasion resistance at moderate precious metal costs.

IWG CHEMICALS

Non-Precious Electrolytes

Many of our proven products are non-precious metal electrolytes such as nickel, copper, and tin, as well as their alloys.

29 Cu

Cudega®

Copper, white and yellow bronze

Our copper baths produce smooth, high-gloss intermediate layers that can be formed and polished. White bronze combines an attractive appearance with improved corrosion protection.

28 Ni

Nidega®

Chemical or electrolytic nickel

Our nickel electrolytes produce uniform, high-gloss, and corrosion-resistant coatings. Nidega® chem high P HS works up to 30% faster, while Nidega® pure is ideal for rack and barrel applications.

50 Sn

Stadega® Tin and tin-nickel

Our sulfuric acid tin plating processes produce uniform, high-gloss, and highly solderable coatings for rack and barrel applications. Stadega® blend Ni black produces cost-effective anthracite-grey coatings that are resistant to corrosion, chemicals, and heat.

24 Cr

Crodega® Chrome 3+

Chrome plating offers high hardness, low wear and reliable corrosion protection – making it ideal for the automotive industry. Our trivalent chromium electrolytes are environmentally friendly alternatives to chromium(VI) and are safe for both people and the environment.

IWG CHEMICALS

Continuous Innovation & Development

The demands and standards set by our customers change constantly. This is why it is so important to recognise them as soon as possible and find solutions through innovation and continual development. And we accept this challenge gladly. In doing so, we are confronted by issues such as economic viability, efficiency improvement, cost reduction and quality standards.

IWG PRECIOUS METAL RECOVERY

Recover valuable resources - directly at IWG

The recovery of precious metals is one of our core competencies. Gold, palladium, rhodium, platinum, and ruthenium are efficiently recovered from used baths and rinse water as well as from metal scrap and either processed for reuse in our process baths or — as part of our refining services — credited directly to our customers' precious metal accounts. This conserves valuable raw materials and reduces costs. This process is a central component of sustainable and economical production processes, especially in contract electroplating.

Recovery at IWG

Cost-effective
Electroplating recycling is cost-effective and good for customer budgets. We recover precious metals for future use, thanks to our effective recycling methods.

Transparent – with the IWG precious metal account
It's easy! The value of the precious materials is reimbursed or credited to the precious metal account of our customers and then used for new baths at any time. Reliable, safe, and transparent. Every single step of the process – from the reception of the material to the invoicing – is fully documented and can be traced easily.

Customized solutions
State-of-the-art analysis methods using ICP-OES ensure precise, reliable results for your scrap. We possess decades of experience and update the necessary processing steps on an ongoing basis. This is analysis at the highest level of precision.

Efficiency
Maximum recovery using a combination of various recycling methods, so even the minutest traces of precious metals can be recovered. The costs for the separation process remain low.

Environment
We recover precious metals using our own separation process exclusively so that we can offer them again to our customers. 100 % recycling = 100 % sustainable.

OUR COMPETENCES

IWG Plating Service

IWG PLATING SERVICE

Contract electroplating of the highest quality

In the fully automated production facility, workpieces are coated for customers – using state-of-the-art automation, 100% traceability and stable, documented core processes. The range extends from chemical nickel plating (e.g. for aluminium components) and tin-nickel to precious metals such as silver, gold, palladium, ruthenium or rhodium – in both rack and barrel applications.

IWG offers the right process for virtually every requirement and implements it consistently. The focus is on quality, value for money and sustainability: stable processes reduce waste, increase service life and ensure consistently high surface quality.

IWG PLATING SERVICE

Series production at its best – reliable, scalable, suitable for industrial use.

Whether it's millions of components a year or ongoing series production – we finish your parts cost-effectively, precisely and to a consistently high standard. Our automated processes guarantee short lead times, maximum reproducibility and reliable quality – from the first part to the last.

Contract Electroplating at a Glance

40 Process Baths

We plan and optimize our baths according to your individual requirements and guarantee optimal plating even for geometrically complex shapes.

Precious Metal Recovery

We recover precious metals and return them to the baths. The sustainable use of resources is a matter of course for us and besides saves your money.

Traceable Processes

Every process step is fully documented and traceable ensuring 100% quality assurance.

IWG PLATING SERVICE

Our goal is the perfect finish.

At IWG, quality doesn't begin with the coating process – it starts long before that. Every raw part delivered undergoes a careful visual inspection under optimal lighting conditions – in our specially designed, light-filled assembly area. We then analyze the base material in our in-house laboratory using X-ray fluorescence to determine the ideal process sequence. Only then do the parts go onto the racks – and into the bath for high-quality finishing.

IWG SEQFLOW

SeqFlow: The Plating Processes

IWG offers the right process for virtually any requirement and implements it consistently. Our focus is on quality, value for money, and sustainability: stable processes reduce scrap, extend tool life, and ensure consistently high surface quality. We find the right solution for every application.

Overview of our Processes:

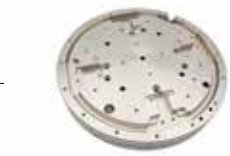
Arega® SeqFlow Silver Process

is a high-precision, durable, and aesthetically pleasing coating solution that not only looks impressive but also delivers outstanding technical performance.

We offer the perfect solution for both decorative and technical applications—customized to meet your specific needs.

Technical features

- The deposited layer has a fine silver content of **99.5 99.9 % Ag**
- Hardness of approx. **120 HV**
- Density of approx. **10.4 g/cm3**
- **ÖNORM EN ISO 4521:2009 02 01**
- Can be applied **directly to copper/brass**, even without an intermediate coating
- Pre-nickel plating possible for steel/aluminium



Nidega® chem SeqFlow

Chemical Nickel Process

Aluminum, brass and iron are indispensable materials—but they reach their limits when exposed to corrosion, wear, or chemical stress. With this electroless nickel plating process, we treat these metals in a targeted, precise, and cost-effective manner for demanding applications.

Two optimally tailored solutions are available: Nidega® chem mid P SeqFlow and Nidega® chem high P SeqFlow

Technical features

- **High corrosion and abrasion resistance** for aluminium, iron and brass
- **ÖNORM EN ISO 4527:2003**
- **Good gliding properties** and visually appealing surface
- **Magnetic or non-magnetic** (je nach Phosphorgehalt)
- **Even coating on complex components**

Not the right process for your needs?

We'll find the perfect solution for your requirements!

Ruthega® SeqFlow

Ruthenium Process

Ruthenium coatings combine high electrical conductivity with mechanical strength and chemical resistance.
With the optional blackness additive, the process offers an attractive alternative to black chrome coatings – and is particularly suitable for components subjected to high electrical and mechanical stress, such as in electrical engineering, connectors, or the printing industry.

Technical features

- can be used on **steel, copper, brass, or aluminum.**
- **Dark silver-grey to light anthracite-coloured surface.**
- By adding **blackening additives**, an L-value of up to 56 can be achieved
- **Layer thickness 0,1 – 1 µm**

Crodega® SeqFlow

Chrom 3+ Process

In our electroplating facility, we offer high-quality chromium (Cr^{3+}) coatings on brass – a modern, environmentally friendly alternative to traditional chromium(VI) coatings. Our process is REACH-compliant, meets the highest standards for corrosion resistance, appearance, and performance, and is suitable for both technical and decorative applications.

Technical features

- Slightly bluish sheen (L* = 84 - 85, a = -0,3 to -0,8, b = -0,3 to 0,8) similar to that of hexavalent chromium..
- **Corrosion resistance** tested according to ÖNORM EN ISO 9227 (salt spray test)
- **Layer thickness 0,1 – 0,5 µm**

Our Responsibility - Into the Future with a good Feeling

RESPONSIBILITY

Our Values

Only those conscious of their responsibility can act accordingly. We truly believe in this statement. For us, corporate responsibility is constant further development in a wide spectrum of different fields – from sustainable product solutions, social commitment, workplace safety for our staff, careful use of resources, and compliance with social and environmental standards, to our contribution to climate protection. Sustainability has long since turned into a core company objective from a peripheral activity. We can proudly say we are working consistently on reducing our ecological footprint.

Code of Conduct
Compliance with our business principles is a natural part of our daily work: unconditional respect for accepted ethical principles, such as respect for human rights, respect for the different cultural backgrounds of our staff and business partners and strict adherence to existing laws.

Compliance with Due Diligence Obligations along the Supply Chain
We ensure that our products do not contain any raw materials from illegal or unethical sources. Compliance with the RJC „Code of Practices“ is audited by independent third parties.

Member of the Responsible Jewellery Council
Our goal is to strengthen people and the environment in the long-term through sustainable actions. This is the principle we follow every day. We are a certified member of the RJC and commit ourselves to maintaining ethical, social, environmentally friendly, and human rights standards across the entire supply and production chain. We conduct our daily business in compliance with the RJC „Chain of Custody“ (CoC).

RESPONSIBLE JEWELLERY COUNCIL

QUALITY, ENVIRONMENT & SAFETY

We focus on the Details

Quality
At IWG, quality comes first. Certified in accordance with ISO 9001, we are committed to effective quality assurance and sustainable quality management.

Environment
As an ISO 14001-certified company, we are committed to systematically reducing our ecological footprint. Our green operating site, featuring a photovoltaic system with up to 240 kW output and environmentally friendly water-to-water heat pumps, is a visible expression of this commitment.

Safety
Our company’s efficiency is closely linked to the health and safety of our staff. As an ISO 45001-certified company, we are committed to the consistent implementation of all relevant occupational health and safety requirements and to the continuous improvement of safe working conditions.

Our Product Range

	Decorative Application			Functional Application	Method		LAB-Values		
Name of Product	Writing instruments	Jewellery	Glasses	Plug connectors	Bath	Pen	L*	a*	b*
Silver									
Arega® pure 380	●	●	●	●	●		~98,5	~0,2	~2,5
Arega® pure				●	●		~98	~0,1	~3
Arega® pure 390				●	●		~97	~0,2	~3
Palladium									
Pallega® blend Co	●	●	●	●	●		~84	~1	~5
Pallega® pure EC	●	●	●	●	●		~86	~1	~5
Pallega® blend Fe	●	●	●	●	●		~85	~1	~5
Pallega® pure FS	●	●	●	●	●		~84	~1	~6
Pallega® pure HT	●	●	●	●	●		~87	~1	~5
Pallega® pure TS	●	●	●	●	●		~87	~1	~5
Pallega® blend Ni	●		●	●	●		~84,5	~1	~5
Pallega® blend Sn NEW	●	●	●	●	●		~83	~1	~6,5
Pallega® pure pen		●				●	~83,5	~1,5	~5,5
Platinum									
Platega® blend Rh	●	●	●		●		~89	~1	~4
Platega® pure K1	●	●	●		●		~86,5	~1	~5,5
Platega® pure GAM	●	●	●		●		~87	~1	~4
Platega® pure S NEW	●	●	●		●		~87,5	~1	~5,5
Platega® pure pen		●				●	~85,5	~1	~5,5
Rhodium									
Rhodega® blend Ru	●	●	●		●		~90	~0,5	~3
Rhodega® blend Pt	●	●	●		●		~90	~1	~3
Rhodega® pure blue 2		●			●		~35	~-10	~-20
Rhodega® pure blue pen		●				●	~35	~-12	~-18
Rhodega® pure black	●	●			●		~63	~1	~3
Rhodega® pure C2	●	●	●	●	●		~91	~0,5	~3
Rhodega® pure K3	●	●	●	●	●		~91	~0,5	~3
Rhodega® pure black 3		●				●	~55	~0,5	~0
Rhodega® pure 5E pen		●				●	~89	~3	~1
Ruthenium									
Ruthega® pure HS2	●	●		●	●		~76	~0,5	~3,5
Ruthega® pure HS2/O	●	●		●	●		~55,5	~0,5	~2
Ruthega® pure N	●	●		●	●		~64	~1	~3,5
Ruthega® pure N black	●	●			●		~62	~0,5	~3,5
Ruthega® pure pen	●	●				●	~71	~1	~4,5
Ruthega® pure black pen	●	●				●	~57	~0,5	~2

	Decorative Application			Functional Application	Method		LAB-Values		
Name of Product	Writing instruments	Jewellery	Glasses	Plug connectors	Bath	Pen	L*	a*	b*
Gold									
Aurega® pure 1N14B	●				●		~87	~3	~23
Aurega® pure 112	●				●		~84,5	~2,5	~16,5
Aurega® pure 218	●	●	●		●		~80	~5,5	~25
Aurega® pure HS4	●		●	●	●		~86	~10	~37
Aurega® pure HS2	●	●	●	●	●		~86	~8	~33
Aurega® pure		●	●	●	●		~86	~7,5	~30
Aurega® pure DE	●	●	●		●		~87	~8	~32
Aurega® pure 0N pen		●	●			●	~88	~0,5	~21
Aurega® pure 2N pen		●	●			●	~87	~4	~28
Aurega® pure R pen		●	●			●	~89	~6	~37
Aurega® pure yellow pen		●	●			●	~90	~4,5	~34
Aurega® blend Cu rosé 1 pen		●	●			●	~87	~9	~17
Aurega® blend Cu rosé 3 pen		●	●			●	~87	~9,5	~13
Aurega® blend Cu red 5N pen		●	●			●	~87,5	~9,9	~14,2
Aurega® pure 1114M	●	●			●		~87,5	~3	~23
Aurega® pure 1115	●	●	●		●		~84,5	~3,5	~18,5
Aurega® blend Cu 118CX NEW	●	●	●		●		~88	~6	~16
Aurega® blend Cu 114CX	●	●	●		●		~90	~5	~16
Aurega® pure 1N14	●				●		~86	~5,5	~30
Aurega® pure 210H	●	●	●	●	●		~88,5	~6	~34
Aurega® pure 211Ti		●	●		●		~85	~10,5	~39
Aurega® pure 210GM	●	●	●		●		~83	~9	~36
Aurega® pure 218	●	●			●		~86,5	~5	~28
Aurega® pure 240KP		●			●		~90	~6	~38,5
Aurega® pure 240KP 1N		●			●		~91	~5	~23
Aurega® pure 240KP 2N		●			●		~87	~6	~22
Aurega® pure 240KP 3N		●			●		~86,5	~5	~17
Aurega® pure 240KP 4N		●			●		~86,5	~6,5	~17
Aurega® pure 240KP 5N/1		●			●		~86,5	~9	~16
Aurega® pure 240KP 6N		●			●		~86	~7	~15,5
Aurega® pure 240KP 9N		●			●		~88,5	~6,5	~33
Aurega® pure 2N18	●		●		●		~87	~5	~26
Aurega® pure 220	●	●	●	●	●		~85,1	~8,6	~34,8
Aurega® blend Ag 3018		●	●		●		~92,5	~-3,5	~30
Aurega® blend Ag 3030	●	●	●		●		~96	~-1	~7
Aurega® blend Cu 630	●	●	●		●		~86	~8,5	~14,5
Aurega® blend Cu 640	●	●	●		●		~85	~9	~16
Aurega® blend Cu 118 Pl	●	●	●		●		~84	~8	~13,5
Aurega® blend Pd 9000	●	●	●		●		~83	~6	~16

Name of Product	Decorative Application			Functional Application	Method		LAB-Values		
	Writing instruments	Jewellery	Glasses	Plug connectors	Bath	Pen	L*	a*	b*
Bronze									
Cudega® blend Sn white 15	●	●	●	●	●		~88	~0,2	~4,5
Cudega® blend Sn yellow 16	●	●	●		●		~87	~2	~15
Copper									
Cudega® pure 650	●	●		●	●				
Cudega® pure 80	●	●		●	●				
Cudega® blend Zn				●	●		~92	~1	~24
Chrome									
Crodega® pure 3+ FS	●			●	●		~83	~-0,5	~1,5
Nickel									
Nidega® pure Sulfamat HG	●			●	●				
Nidega® pure GAP	●			●	●				
Nidega® chem mid P				●	●				
Nidega® chem high P HS				●	●				
Nidega® chem low P black				●	●				
Nidega® pure Strike				●	●				
Tin									
Stadega® blend Ni				●	●		~72	~2	~4
Stadega® pure 283				●	●		~91,3	~0,3	~4,9
Stadega® blend Ni black				●	●		~58	~1,8	~3,6
Precious Metal Compounds									
Pallega® Palladium solution 100	●	●	●	●					
Aurega® Goldcomplex 68,2%	●	●	●	●					
Aurega® Goldcomplex 210H	●	●	●	●					
Aurega® Goldcomplex 210H/2	●	●	●	●					
Arega® Silvercomplex 54%	●	●	●	●					
Aurega® Palladiumsolution 9000	●	●	●	●					
Protect Passivations									
Arega® protect 100					●				
Arega® protect 200					●				
Arega® protect 400 Paste					●				
Cudega protect					●				

	Decorative Application			Functional Application	Method		LAB-Values		
Name of Product	Writing instruments	Jewellery	Glasses	Plug connectors	Bath	Pen	L*	a*	b*
Stripper / Pickle									
Palladium Stripper									
Rackstripper E									
Electrolytic Silver Stripper									
Uniex									
Nifex									
Goldex 3									
Nickelex									
Strip it Nickel Chromium									
Brightening pickle (electroless)									
Degreasing									
Rostex	●	●	●	●	●				
Degreasing 1013	●	●	●	●	●				
Degreasing 1018	●	●	●	●	●				
Degreasing EE 1070	●	●	●	●	●				
Degreasing 2050		●		●	●				
Ultrasonic Cleaner									
Uniclean 50	●	●	●	●	●				
Uniclean 70	●	●	●	●	●				
Uniclean 90	●	●	●	●	●				
Electropolishing									
Aluox									
Electropolishing solution for Base metals									
Aluminium Pretreatment									
Zincatepickle Trial									
Zincatepickle Trial 2									
Acid Iron Pickle									
Alubond 2									
Accessories									
Anion Exchange resin									
Cyanide removal resin									
Palladium recovery resin									
Gold recovery resin									
Rectifier „Basic“									
Rectifier „Pro“									
Anodega Cu Anodes									
Tampon Tips									
Anodega Tin Anodes									
Anodega Ni Anodes									
Anodega MOX Anodes									
Anodega Pt/Ti Anodes									
Silver Grain									

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