

Team Plating Works

EST.1974

EVERY INDUSTRY NEEDS A LEADER

TALK TO US

011 825 6701

admin@teamplating.co.za

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EVERY INDUSTRY NEEDS A LEADER

Barrel Electro-plating

Barrel electro-plating brings a range of transformative benefits to your metal components:

- Significantly extend the lifespan of your parts, ensuring enhanced durability against wear and environmental factors.
- Corrosion resistance is fortified, granting longevity even in challenging conditions.
- Beyond protection, our electro-plating breathes new life into the appearance of the articles.

Aesthetic enhancements are tailored to your specifications, adding visual allure to your products.

This process's versatility spans industries, from electronics to jewelry, promising tailored solutions for diverse markets.



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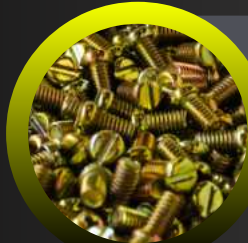
admin@teampointing.co.za





BLUE/CLEAR

- 100 hrs +
- Blue/Clear finish



YELLOW

- 250 hrs +
- Iridescent yellow/orange finish



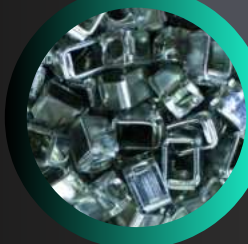
GREEN/OLIVE DRAB

- 400 hrs +
- Dark Green/Olive Drab finish



BLACK

- 50 hrs +
- Glossy Black finish



ENVIRO PASS™

- 300 hrs +
- Light blue/clear finish
- Chrome 6 free



MEGA ZINC®

- 700 hrs +
- Yellow/Green finish

P R E C I O U S M E T A L S



COPPER

- Excellent conductivity
- Excellent undercoat
- Salmon finish



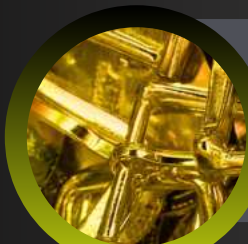
NICKEL

- Excellent conductivity
- Hard, ductile element
- Mirror finish



HEAVY BRASS

- Dull brass finish
- Bonds to rubber
- Decorative



BRIGHT BRASS

- Bright brass finish
- Bonds to rubber
- Decorative

M E C H A N I C A L

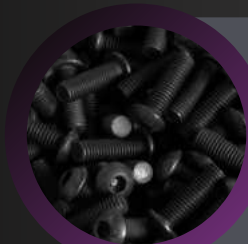


MECHANICAL

- available in:
 - Green
 - Yellow
 - Clear

No Hydrogen Embrittlement

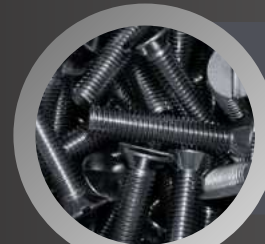
Z I N C - N I C K E L



PERMA ALLOY

- 1000 hrs +
- Matt finish (clear/blue/black)
- Extremely durable & corrosion resistant

C A D M I U M



CADMIUM

- excellent resistance in marine and high chloride areas
- Clear or Yellow finish
- NOT ROHS compliant

N O T E :

- All salt spray hours are at 10 microns of deposit
- All salt spray hour ratings are before **RED** rust

LEAD TIMES

Z I N C / C A D M I U M

1 - 3 working days

Our largest and quickest product line.

The **colour** of each passivation may influence the lead time.

M E C H A N I C A L

5 - 7 working days

Our mechanical line is a unique line that requires special care.

This line's primary advantage is the elimination of **hydrogen embrittlement**, therefore cleaning of your stock takes more time.

P R E C I O U S M E T A L S

5 - 7 working days

Our precious metal line consists of **smaller, delicate** barrels.

This affects lead times due to having less articles in each load.

P E R M A A L L O Y

3 - 5 working days

an extremely **specialized** process

May have longer lead times due to demand

Lead time is subject to change due to :

- Order size (quantity)
- Article size and weight
- Plating time required

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Z I N C

Barrel plating **zinc** involves:

- depositing a zinc layer onto metal objects within a rotating barrel
- enhancing **corrosion resistance**
- provides a **shiny** finish.

This **cost-effective** method is ideal for mass production of small components.

Zinc plating also **improves** wear resistance, solderability, and electrical conductivity.

PASSIVATION STRENGTH



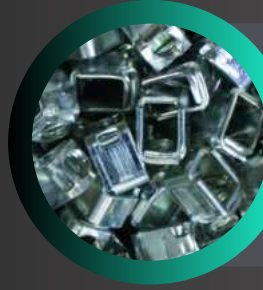
MEGA ZINC ®

- 700 hrs +
- Yellow/Green finish



GREEN/OLIVE DRAB

- 400 hrs +
- Dark Green/Olive Drab finish



ENVIRO PASS™

- 300 hrs +
- Light blue/clear finish
- Chrome 6 free



YELLOW

- 250 hrs +
- Iridescent yellow/orange finish



BLUE/CLEAR

- 100 hrs +
- Blue/Clear finish



BLACK

- 50 hrs +
- Glossy Black finish

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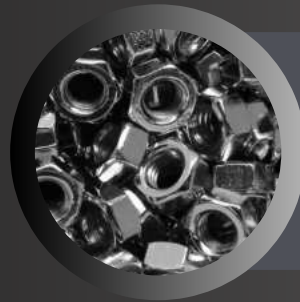
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PRECIOUS METALS

Copper, **Nickel**, **Brass**, and **Bright Brass** are frequently employed in a decorative plating process known for its aesthetic enhancements and protective benefits.



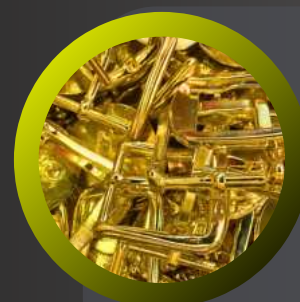
Copper serves as an underlayer, offering excellent adhesion and a uniform base for subsequent platings



Nickel, prized for its resistance to tarnishing, provides durability and a lustrous appearance



Heavy Brass, a copper-zinc alloy, adds a warm and timeless aesthetic layer



Bright Brass, a variant of brass, is further enhanced for its reflective and polished look, completing the intricate, multi-layered decorative process

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NOTES :

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B E Y O N D Z I N C

ZINC-NICKEL

Zinc nickel plating is an electrochemical process that involves depositing a zinc-nickel alloy layer.

This plating technique offers **superior corrosion resistance**, owing to the protective properties of the zinc-nickel alloy.

An ideal solution for enhancing the **durability** and **longevity** of metal components.

- Used in critical industries such as automotive and aerospace

- Provides excellent protection against corrosion

- Improved resistance to hydrogen embrittlement

*Perma-Alloy
+ 1000 hrs*

- 
- *Matt/bright finish*
 - *Scratch resistant*
 - *Superior Corrosion resistance*
 - *Official replacment of Cadmium Plating*

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— Z I N C —

Blue Passivation

Produces an intensively blue to
blue purple, clear, chromate
conversion coating on
electroplated zinc

brightens, passivates and protects
the zinc from discolouration, finger
staining, and protects against
corrosion

— S A L T S P R A Y —

+ - 10 Microns Zinc + Blue Passivate

White rust - 100 hrs

Red rust - 200 hrs



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— Z I N C —

Yellow Passivation

Produces a **yellow** coloured,
iridescent chromate conversion
coating on zinc.

This film has excellent corrosion
resistance.

makes an excellent base for the
bonding of organic finishes.

— S A L T S P R A Y —

+ - 10 Microns Zinc + **Yellow Passivate**

White rust - 150 hrs

Red rust - 500 hrs



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— Z I N C —

Green/Olive Drab

produces a heavy **olive drab** chromate coating on zinc or cadmium plated surfaces

provides the maximum salt spray and abrasion resistance of any type of chromate dip

produces an excellent base for subsequent painting and can replace organic type primers for this purpose

— S A L T S P R A Y —

+ - 10 Microns Zinc + **Green/Olive Drab Passivate**

White rust - 220 hrs

Red rust - 700 hrs



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— Z I N C —

Black Passivation

produces a glossy, black coating on zinc plated, zinc die cast or galvanized parts.

Provides an excellent base for subsequent paint, lacquer, or enamel finishes.

Not recommended to be used for outdoor purposes.

— S A L T S P R A Y —

+- 10 Microns Zinc + Black Passivate

White rust - 72 - 96 hrs

Red rust - 250 hrs +



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— Z I N C —

Enviro Passivation™

EnviroPass™ is a registered trademarked process utilising new generation trivalent passivation

chrome 6 FREE

Complying with ALL automotive and ROHS standards and meets the local and international demand for a high corrosion resistant trivalent passivation.

— S A L T S P R A Y —

+ - 10 Microns Zinc + EnviroPass™

White rust - 250 hrs

Red rust - 500 hrs



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— Z I N C —

MEGA ZINC®

MegaZinc® is a Registered trademarked process providing an electroplated Zinc coating of between 10 and 30 microns (**depending on the Class**), plus other various organic protective finishes which will leach and seal the plated article

MegaZinc® is a superior zinc deposition process

— S A L T S P R A Y —

Up to 30 Microns of Zinc + **MEGA ZINC®**

Red Rust

CLASS A 900 hrs

CLASS B 800 hrs

CLASS C 700 hrs

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— C O P P E R —

Ductile & relatively soft, it alloys readily with other metals

has excellent electrical & thermal conductivity

useful as a pre-coating for soft soldered work, pewter & zinc alloy die-casting before the disposition of other metals.

Copper may be deposited as a dull or bright coating & is used for both decorative & industrial purposes.

— A P P L I C A T I O N —

- Undercoat for many metal processes
- Excellent electric and thermal Conductivity



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— N I C K E L —

has a high mechanical strength, is hard & at ordinary temperatures is paramagnetic

may be deposited as a bright or semi-bright coating

For Engineering Applications, ductility and hardness are of major importance & by adjusting the operating conditions & solution composition, the property of the deposit can be varied to meet the requirements of differing applications

— A P P L I C A T I O N —

- Shiny, Decorative finish
- Excellent Conductivity'
- Hard and ductile



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— B R A S S —

Brass is an alloy made of **Copper** and **Zinc**; the proportions of which can be varied to create a range of **brasses** with varying properties

Brass has higher malleability than bronze or **zinc**

Bright Nickel or **Bright Copper**, is usually applied as an initial deposit, there after a short period of **Brass** is electroplated so that a **Bright Brass** finish

Heavy Brass is obtained by omitting the deposition of the **Bright Nickel** or **Bright Copper**

— A P P L I C A T I O N —

- Decorative deposit
(**Bright** or **Heavy Brass**)
- Base for rubber bonding on iron and steel

HEAVY BRASS



BRIGHT BRASS



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— Z I N C —

Mechanical

Mechanical galvanizing was developed to meet the fastener requirements of the construction industry.

This high performance coating will provide sacrificial protection in rural, industrial and marine environments up to 10 years depending on the thickness applied and environmental conditions.

Hydrogen embrittlement does not occur during this plating process

— P A S S I V A T I O N S —

Clear

Yellow

Green/Olive Drab

F I N I S H E S

Light - 10 - 25 microns

Heavy - 25 - 40 microns

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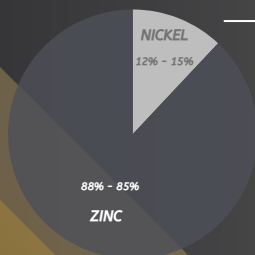
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P E R M A A L L O Y

Alkaline zinc nickel baths offer a ductile deposit, excellent corrosion resistance in a salt spray (ASTM B 117) test.

And the ability to plate in deep, low current density regions. It can also replace Cadmium as a protective and ROHS compliant layer



FINISHES

- Crystal Clear
- Brilliant Blue
- Jet/Matt Black

S A L T S P R A Y

White rust	-	1000 hrs
Red rust	-	+ 1500 hrs



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— C A D M I U M —

Cadmium gives excellent protection to iron and steel

excellent corrosion resistance in marine conditions
forms a basic chloride on the surface which prevents further attack

low contact potential difference in relation to aluminum

- P A S S I V A T I O N S -

White

Yellow

- Excellent corrosion resistance
- Slight lubrication

WARNING:

can not be used on articles which come into contact with:

- foodstuffs
- drinking water



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