

# ENhanced Z8

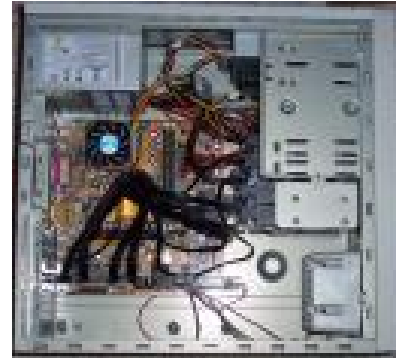
**RoHS Compliant Electroless Nickel 100%  
Lead-Free, Cadmium-Free Coating  
Environmentally Friendly**

Quality Finishing and  
Support Operations.  
Since 1960.



## Product Description

- ▶ Electroless nickel plating employing advanced stabilizer and unique buffering technology that eliminates the need for either lead or cadmium
- ▶ Mid-phosphorus composition, typically 7-9% by weight, offering best combination of superior corrosion resistance and excellent wear resistance
- ▶ Appealing metallic luster consistent brilliant appearance throughout the life of the bath
- ▶ Ultra-smooth deposit with consistently low coefficient of friction
- ▶ Can be thermally treated to increase hardness of the nickel phosphorus alloy to an equivalent hardness of 60-65 Rockwell C



RoHS and WEEE Legislation prohibits lead, cadmium, mercury and hexavalent chromium from use in electrical and electronic equipment with very few exceptions.

## Typical Physical Properties

Composition:	Nickel:	93-91%
	Phosphorus:	7-9 %
	Cadmium:	0 ppm
	Lead:	0 ppm
Appearance:	Shiny metallic luster	
Density:	8.0 – 8.2 grams/cm <sup>3</sup>	
Microhardness:	550 HVN <sub>100</sub> As-deposited	900 HVN <sub>100</sub> Heat Treated
Electrical Resistivity:	70 - 100 micro-ohm/cm	
Magnetic Properties:	slightly magnetic as plated	
Melting Point:	880 – 1100°C	
Ductility:	Passes ASTM B-489	
Wear Resistance:	16 – 20 TWI As-deposited	10 – 12 TWI Heat Treated

TWI = Taber Wear Index mg / 1000 cycles using CS-10 wheels

## Summary

Anoplate's ENhanced Z8 offers all the advantages of electroless nickel to manufacturers without concern over compliance to stringent environmental regulations (e.g. RoHS, WEEE, ELV) that restrict or ban the presence of lead or cadmium typically found in the majority of electroless nickel deposits.

With an internationally accredited ISO 14001 Environmental Management System, Anoplate is committed to routinely reducing its environmental impact – Anoplate's ENhanced Z8 is the product of that commitment.



ELV Legislation prohibits the use of any level of lead or cadmium *intentionally added* in electroless nickel specified by automotive manufacturers worldwide due to its unmatched corrosion and wear resistance.

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Learn more about Anoplate at [www.anoplate.com](http://www.anoplate.com)