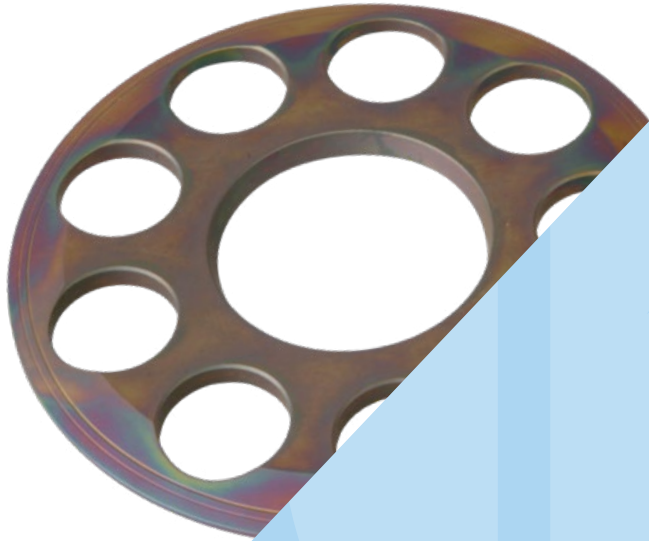


# Zn-Ni Alloy Plating



COTEC has various surface treatment technologies and the company concentrates on products development and quality control to develop various surface treatment items



## Production items and applications

Department / Material		Aircraft parts, Automobile parts / Fe, STS, Al	
Usage		Corrosion resistance, Heat resistance	
Applied specifications	BAC 5637 AMS 2417 AIPS 02 04 006	Thickness	13um min for class 1 8um min for class 2 5um min for class 3
		Adhesiveness	No trace of separation after bending.
		Corrosion resistance	No white rust is allowed after 96 hours of salt spray test Semi-Bright plating : Hv 850 or higher
		Stress relief	at 191±14°C, 4 hours depending on the requirements of specification
		Hydrogen embrittlement relief	Depending on product's microstructure and hardness, relief time differs. 191±14°C, for more than 3 hours (HRC 32~39) 191±14°C, for more than 12 hours (HRC 40~47) 191±14°C, for more than 22 hours (HRC 48 for more than)
Acceptance		External	BOEING, AIRBUS, CLAVERHAM, HS, NADCAP, MOOG, EMB
		Internal	ADD, KAI, HANWHA, KAL

## Equipment condition

COTEC	Acid	3,000 × 1,000 × 1,500 mm
	Alkaline	3,200 × 1,000 × 1,500 mm



# Zn-Ni Alloy Plating

Capable of coating complex parts

## Our technologies and their applications

### Characteristic

- Improvement of material properties of automobile parts, electric and electronic precision parts.
- High precision corrosion resistance plating.
- It is possible to carry out black, milky and white color chromate treatment on the alloy film containing 5 to 15% of Nickel.
- Excellent in corrosion resistance and heat resistance.

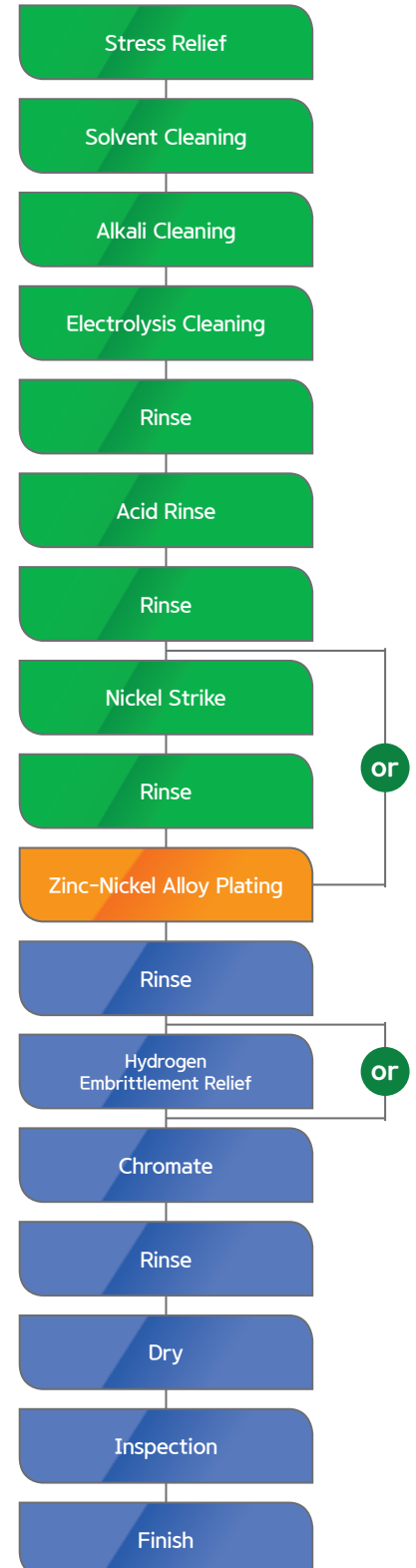
### Applicable parts

- Automotive parts, Electronics, Aerospace parts

## COTEC Plating Process



## Process



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