# KANIGEN ®

## ELECTROLESS NICKEL PLATING

Kanigen is Electroless Nickel plating process (EN plating), can control plating thickness film with high accuracy to overall parts and can provide various abilities such as high hardness, wear resistance, corrosion resistance, etc.

## Characteristics

- » Smooth coating of surface
- » Amorphous (non-porous) plating film
- » Available apply to Steel and Aluminum
- » Improve hardness, wear resistance, corrosion resistance, lubricity
- » Available tight range thickness control
- » Uniform coating overall surface even for complicated shape
- » Against high temperature and high alkaline condition

## Product Type

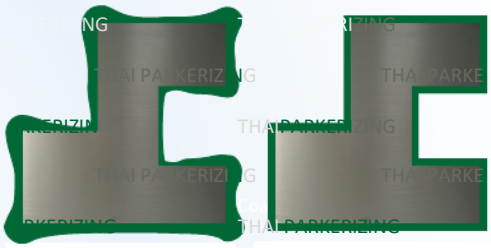
- » Kanigen (Ni-P alloy)
- » Kaniflon (Ni-P alloy with PTFE)
- » Kaniboron (Ni-P-B coat)
- » Kanihaste (Ni-P-Co-W alloy)

Pic1: Cross section on actual part for check coating thickness

## Technical Data

Characterization of KANIGEN plating solution

| Properties | KANIGEN® | KANIFLON®(A) | KANIHASTE II® |
|---|---|---|---|
| Hardness RT (Hv) | 550 ± 50 | 300 ± 50 | 650 |
| Hardness (Hv) baking 300~350°C | 750 ± 50 | 450 ± 50 | 900 ~ 950 |
| Friction coefficient (μ) in dry condition | 0.23 | 0.08 - 0.10 | 0.15 |
| Sliding performance<br>dry condition<br>wet (lubricant oil) condition | △<br>○ | ◎<br>○ | ○<br>◎ |




Pic 2: Uniform coating thickness, strong anti-corrosion, high hardness etc.

## Product function

**Kanigen** (Ni-P alloy)

Uniform coating thickness, strong anti-corrosive properties, high hardness etc.

**Kaniflon** (Ni-P alloy with PTFE)

Self-lubricating, water-shedding etc.

**Kaniboron** (Ni-P-B coat)

Heat resistance, impact resistance, high hardness, self-lubricating etc.

**Kanihaste** (Ni-P-Co-W alloy)

High hardness in a hot environment, fracture tough property, strengthened the sliding quality etc.

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