

NIHON PARKERIZING INDIA PVT. LTD.

Parker Nano-coating Technology for Multi-Metal

PALLUMINA / PALLUCID™ series

Zinc phosphate treatment process (conventional)

Degreasing

Water rinsing

Surface conditioning

Phosphate

Water rinsing

DIW rinsing

Dry-off → Paint or E-coating

Parker nano-coating technology process (PALLUCIDTM) Surface conditioning stage can be skipped

Treatment condition

Application:

Degreasing

Water rinsing

PALLUCID™

Water rinsing

DIW rinsing

Time:

Temp.:

0%

0%

approx. 60%

approx. 50%

Dry-off → Paint or E-coating

Sludge generation on each substrate

60-120 sec

30-50 sec

Dip or Spray

Coating layer of cross section by **Transmission Electron Microscope: TEM** (invisible by SEM due to less thickness)

Onm (0.05µm

Cross section

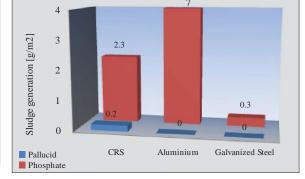
Uniform thin amorphous layer

Sludge generation









CCT results of E-coated CRS panels





Even better corrosion resistance

Hazardous elements comparison

- Nickel & Manganese
- Phosphate
 - Nitrate
- Fluoride
- → Environmentally friendly

Benefits

- Shorter process due to no S/C stage
 - → High productivity
- Less sludge generation
 - → Less disposal
- Less concentrations of hazardous elements
 - → Reduction of ETP loading
- Even better corrosion resistance
 - → Quality improvement

Serving our Customers with...

What they need

Where they need

When they need

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