

Alkaline Zinc-Nickel Rack & Barrel Plating Systems 12–17%

Dipsol continues to bring innovative solutions to meet the increasing demands for corrosion resistant coatings for global markets. The IZ-250Y Rack & IZ-252Y Barrel alkaline zinc-nickel systems exceed all major OEM performance requirements for both rack or barrel applications.

Dipsol zinc-nickel finishes provide for the highest levels of corrosion resistance performance among zinc alloy deposits, exceeding automotive OEM CCT qualifications and 15 years of vehicle corrosion functionality performance, and over 1000 hours to red corrosion in neutral salt spray testing. With exceptional ductility and thermal properties, the IZ-250Y & IZ-252Y systems provide exceptional corrosion resistance after post plating crimping or bending operations and against elevated temperatures as encountered in underhood environments. Dipsol's zinc-nickel systems also provide the highest levels of resistance against stone chipping and other abrasive applications.

With the increasing use of aluminum and other light weight materials in the automotive industry, the zinc-nickel finish provides increased corrosion resistance from galvanic corrosion when joined with dissimilar metals.

Dipsol provides a full line of clear and black trivalent passivates and associated topcoat systems and lubricants to meet additional appearance and friction requirements.



Product Advantages

- **Major OEM & TIER 1 approvals.**
- **Consistent nickel alloy distribution across a wide current density range.**
- **Excellent coverage over complicated part geometries.**
- **Exceptional levels of corrosion, thermal, and abrasion resistance for demanding applications.**
- **High ductility for post plating bending and crimping applications.**
- **Readily accepts post plating clear and black passivates and topcoats.**

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Technical Overview

IZ-250Y/252Y – Rack & Barrel Applications

Operating Conditions

Temperature	23-28°C
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Cathode Current Density

Rack: 3.0 – 6.0 A/dm² Barrel: 0.5 – 2.0 A/dm²