

New **Hendry** Equipment Racks with **Aluminum** Grounding Strips



Steel Equipment Rack



Aluminum Ground Strip

Hendry's steel equipment racks are now available with a superior aluminum grounding strip.

Using an exclusive process called Kinetic Energy Metallization (KEM), an aluminum alloy is bonded to a steel rack to become the grounding strip.

Aluminum coating provides many advantages over traditional electroplated zinc with chromate coating. Contact Hendry to find out about how our new equipment racks can benefit you.

For more information, go to "What's New" at www.hendry.com.

Aluminum Grounding Strip Advantages

- High Electrical Conductivity
- Excellent Adhesion
- Corrosion Resistant
- Abrasion Resistant
- Environmentally Safe

HENDRY

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NEW STEEL EQUIPMENT RACKS WITH ALUMINUM GROUNDING STRIPS

DESCRIPTION

Hendry's steel equipment racks are now available with a superior aluminum grounding strip. Aluminum has higher conductivity and better corrosion resistance than the traditional electroplated zinc/chromate coating.

Hendry uses an exclusive new process called Kinetic Energy Metallization (KEM) to apply a proprietary aluminum alloy to the rack. The resulting metallic coating forms a metallurgical bond with the steel substrate of the rack, thus creating a durable grounding strip that is integral to the rack.

ALUMINUM COATING ADVANTAGES

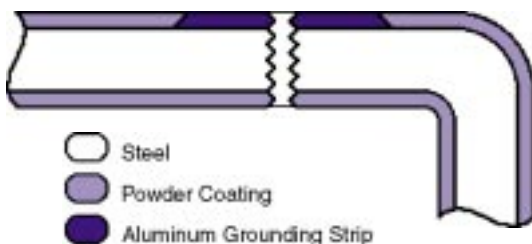
- Superior Electrical Conductivity
- Superior Corrosion Resistance
- Superior Abrasion Resistance
- Superior Adhesion
- Environmentally Safe

QUALIFICATIONS

- ASTM B571-91 Standard Test Method for Adhesion of Metallic Coatings
- ASTM B117-91 Standard Practice for Operating Salt Spray Apparatus
- High-frequency, eddy-current measurements yield conductivity significantly better than chromate

ORDERING INFORMATION

Contact Hendry.



COMPARISON

Electroplated Zinc with Chromate Coating	Aluminum Coating
ADHESION	
Subject to bubbling and flaking.	Metallurgical bond forms between coating and substrate.
CONDUCTIVITY	
Conductivity will degrade over time due to low abrasion resistance.	Extremely high conductivity between coating and rack allows rack system to act as both a performance ground and a safety ground.
CORROSION RESISTANCE	
ASTM B117, Type II - 96 hrs; Type III - 12 hrs.	ASTM B117 - exceeds 150 hrs.
ABRASION RESISTANCE	
5 micrometers thick. Subject to rubbing, scratches and abrasion.	100 micrometers thick. Self-healing.
COLOR	
Subject to uneven coating, leading to variations in color.	Uniform color throughout.
ENVIRONMENTAL ISSUES	
▲ "The chrome conversion coating process contains many chemicals regulated, restricted or otherwise listed by the U.S. EPA. The use of these chemicals required environmental reporting, permits, fees and/or other initiatives."	None.
HAZARDOUS WASTE STREAMS	
Zinc - 150 gm Chromate - 25 gm	None.
METALLIC FILAMENTS	
Subject to "whisker" formation.	None.

▲ Engineering and Technical Services for Joint Group on Acquisition Pollution Prevention (JG-APP) Pilot Projects Potential Alternatives Report, HM-A-1-1, Alternatives to Chrome Conversion Coatings, January 29, 1998