



FERROPHOS[®] PIGMENT

Ferrophos Pigment is used in preparing unique, cost-effective and high-performance weldable, conductive or corrosive-resistant coatings.

A high melting point and specific gravity, and low oil absorption, makes this pigment a logical choice for many coating applications.



Glenn Springs Holdings, Inc.
5005 LBJ Freeway, Suite 1305
Dallas, Texas 75244

IMPORTANT: The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. No warranty or guarantee, express or implied, is made regarding performance, stability or otherwise. This information is not intended to be all-inclusive as the manner and conditions of use, handling, storage and other factors may involve other or additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State or local laws.



FERROPHOS[®] PIGMENT **FeP – Fe₂P**

APPLICATIONS:

- | | |
|---------------------|--|
| Paints | - Used as a cost effective partial replacement (20-50%) for zinc dust in zinc rich coatings. |
| Weldable Coatings | - Provides weldability in singular or multiple pigmented coatings for applications such as preconstruction primers, adhesives, sealants and coil coatings. |
| Conductive Coatings | - Provides both an electrically and thermally conductive coating. |
| EMI-RFI Shielding | - Used as a cost effective partial replacement (up to 35% by weight) for nickel or copper pigments in EMI-RFI Shielding Coatings. |
| Powder Metallurgy | - Lowers sintering temperature, facilitates compression and adds magnetic properties in powder metallurgy, increases “green strength” of unsintered powders. |

SUGGESTED USES:

Extend Zinc in Zinc-Rich Paints
Automotive spot welding applications
Appliance spot welding applications
Weldable Preconstruction Primers
Weldable Coil Coatings, Adhesives & Sealants
EMI-RFI Shielding Coatings
Antistatic and Electrostatic Coatings
Additive in Power Metallurgy



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Phosphorus and Phosphorus Derivatives

Specifications:

Particle Size (Coulter Counter/OxyChem Method)	<u>Superfine HRS 2131</u>	<u>Microfine HRS 2132</u>
Top Particle Size (99% less than) (microns)	32	26
Typical Median Size (microns)	5	4

Physical Properties:

Appearance	Fine, dark grey powder, odorless	
Specific Gravity	6.53	
Bulking Value	54.5 lbs/gal	
Apparent (Bulk) Density	19 lbs/gal (146 lbs/cubic ft)	
Auto Ignition Temperature	500-550°F	
	<u>HRS 2131</u>	<u>HRS 2132</u>
Oil Demand (gms Linseed Oil/100 gms Fe ₂ P)	8.9	10.1

Composition:

FeP	18-39%
Fe ₂ P	49-62%
FeSi	6-18%

Typical Major Trace Metal Analysis

Manganese	1%
Titanium	0.7%

Additional Ferrophos Products:

Ferrophos Pigment HRS 3435 is a coarser grade of Ferrophos consisting of about 18 micron typical median size and having a top particle size of 180 microns. HRS 3435 is used to prepare weldable caulks, sealants and adhesives.

Ferrophos Pigment HRS 3095 is no longer manufactured.

Ferrophos Pigment HRS 3346 is no longer manufactured.



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Shipping Containers:

Fiber Drums	<u>Net Weight</u>	<u>Gross Weight</u>	<u>Drums per Pallet</u>
	200 lbs./90.7 kg	206 lbs./93 kg	9
	500 lbs./227 kg	514 lbs./233 kg	4

Royalty Statement

The price of this product includes a royalty for license to use the material under the claims of U.S. Patents 3,884,705, 4,119,763, 4,197,218, 4,278,462, 4,284,072, 4,360,384, 4,390,458, 4,447,492, 4,474,606, 4,474,685, 4,794,050. Licenses to use are available, upon request, to responsible parties whereby the Licensee, for the established royalty

rate included in the purchase price, may practice the invention as claimed in the above patents, using materials purchased from any source. For particulars, apply to Glenn Springs Holdings, Inc., 5005 LBJ Freeway, Suite 1305, Dallas, Texas 75244.



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