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Emphos™ Phosphate Esters

Next-Generation Phosphate Esters for
High-Performance Paints, Coatings &
Adhesives

*Advanced Chemistry.
Invented Together.*

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The **Emphos™** range of phosphate esters are highly effective multifunctional additives designed for paints, coatings, adhesives, and emulsion polymerization. With strong surface activity, pigment wetting, and corrosion inhibition properties, they enhance both performance and durability of finished products.

Product Specifications

Product	Description	Form	Active Content (%)	Approx. EO Chain Length	Applications
Emphos TA 6P	Phosphate ester surfactant in acid form	Liquid	98	Low	Adhesives, emulsion polymerization, paints requiring improved wetting and stability
Emphos TA 6P25A	Phosphate ester surfactant, ammonium salt	Liquid	25	Low	Adhesives, emulsion polymerization, paints requiring improved wetting and stability
Emphos TA 9P	Phosphate ester surfactant in acid form	Liquid	98	Medium	High-performance emulsions, pigment dispersion, coatings with demanding stability
Emphos TA 9P25K	Phosphate ester surfactant, potassium salt	Liquid	25	Medium	High-performance emulsions, pigment dispersion, coatings with demanding stability
Emphos TS 16P	Phosphate ester surfactant in acid form	Liquid	98	High	High-performance emulsions, pigment dispersion, coatings with demanding stability

Key Features

- **Emulsification Power:** Effective in stabilizing a wide range of monomers.
- **Pigment Dispersion:** Enhances pigment wetting and improves color strength.
- **Adhesion Promotion:** Improves bonding in adhesives and coatings.
- **Electrolyte Stability:** Performs well in high-solids, electrolyte-rich systems.
- **Corrosion Protection:** Provides anti-rust and metal protection properties.
- **Formulation Flexibility:** Synergistic with anionic and nonionic surfactants.
- **Multi-industry Utility:** Versatile across paints, coatings, adhesives, and polymer emulsions.

Applications

- **Paints & Coatings**
 - Decorative paints and industrial coatings
 - Pigment dispersion systems
 - Corrosion- and fire-retardant coatings
- **Adhesives**
 - Waterborne adhesives for packaging, construction, and laminates
 - Pressure-sensitive adhesives (PSAs) and sealants
- **Emulsion Polymerization**
 - Acrylic emulsions
 - Styrene-acrylic emulsions
 - VAE copolymers and SBR latex

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