

Phospholan® PE169

An efficient dispersing agent, free from VOC

A versatile dispersant

Phospholan PE169 is a dispersing and emulsifying agent used for paints, pigments, resins and colorants.

It is APEO free and contains no VOC.

Key benefits

Universal and water borne colorants:

- Good for dispersing all types of pigments, in particular inorganic pigments
- Provides for good color acceptance when tinting either solvent borne or water borne white base paint

Paints:

- Improves color acceptance and increases gloss
- Enhances corrosion resistance performance of paints and coatings

Applications

Phospholan PE169 is very versatile in its use and has a proven effect in many applications such as:

- Pigment dispersion in paints and colorants, water borne and solvent borne formulations
- Corrosion resistance additive in steel paint and coatings
- Process additive in the production of emulsion polymers, typically for paint formulations. Phospholan PE169 has a combined emulsifying and colloidal stabilizing effect

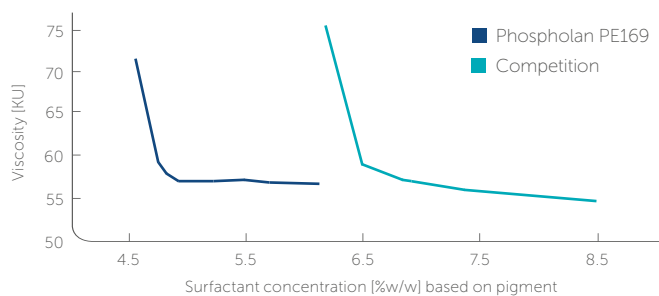
Phospholan PE169 is supplied as a 100% active product, in its acid form. The product can be used either as is, or by neutralization depending on the application.

The pH should be above 7 for Phospholan PE169 to be anionic, otherwise it will be nonionic.

Phospholan PE169 is used either as the single surfactant, or in combination with other nonionic, amphoteric or anionic surfactants. It can be added to paints at levels of 0.3-0.5%.

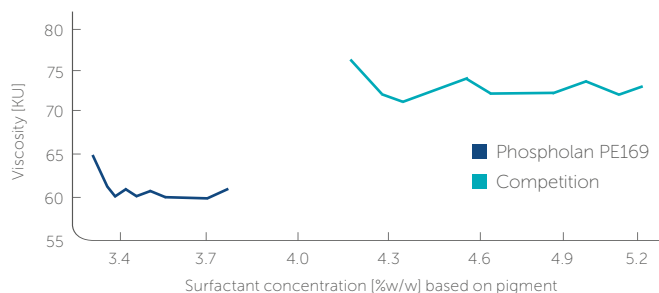
Phospholan PE169 is capable of providing some corrosion resistance on steel. The MEA or other amine neutralized version is the most effective in this respect. Recommended level of addition to the paint is 0,3-0,5%.

Demand curve, PB15:4



Comparison of surfactant demand of competitor phosphate ester with Phospholan PE169 with pigment Heliogen Blue LB L7101F (PB15:4)

Demand curve, PY42



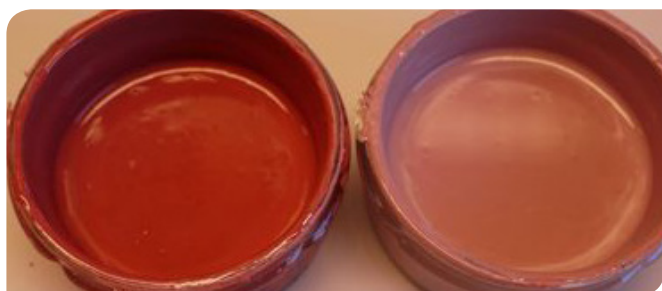
Comparison of surfactant demand of competitor phosphate ester with Phospholan PE169 with pigment Bayferrox 3910 (PY42)

Product data

Active content	100%
pH, 1% in water	2.5
Pour point	-10°C
Surface tension Du Noüy, 25°C, 0.1% DIN 53914	28 mN/m at pH 6
Wetting power Draves, 25°C, 0.1%, pH 6	23 sec
Viscosity, mPa.s at 20°C	~ 900



Iron oxide yellow colorant preparation with Phospholan PE169



Alkyd paint with colorant. Left can: addition of 1 wt% Phospholan PE169 added in base paint

Contact us directly for detailed product information and sample request.
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Nouryon

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