

FUNCTIONAL V-802P

WATER-WHITE TACKIFIER and THICKENER for AQUEOUS SYSTEMS

APPLICATION:

FUNCTIONAL V-802P is an environmentally friendly, non-hazardous aqueous tackifier/thickener for use in fluids made from water or emulsions of water and soluble oils. **FUNCTIONAL V-802P** is clarified version of **FUNCTIONAL V-802** which includes a phosphate buffer / corrosion inhibitor.

FUNCTIONAL V-802P may be blended to increase adherence and drip resistance to liquids or colloidal suspensions used in aqueous bar and chain oils or wire rope lubricants. **FUNCTIONAL V-802P** may be used in flocculating agents, home care/cleaning, and ceramic applications as a binder for powders and as an anti-sag agent in paints. **FUNCTIONAL V-802P** may be used in applications where the pH is between 2 and 12 and up to 10% salinity. **FUNCTIONAL V-802P** is stable to repeated freeze/thaw cycles.

COMPOSITION:

The active ingredient in **FUNCTIONAL V-802P** is a high molecular weight proprietary polymer that provides tackiness and thickening to aqueous systems. The product also contains a cold flow improver for enhanced product stability and performance at freezing temperatures. The polymer is not considered biodegradable but is considered oxidatively degradable.

Typical Properties	
Appearance	Clear viscous liquid
Lbs per Gallon	8.42
Kinematic Viscosity	60,000 cSt @ 40°C
pH	Slightly Alkaline (7.0 – 8.0)
% Phosphorus	0.3 – 0.5%

TREATMENT LEVEL:

Typical treatment level is 0.3 - 10% for tack in water-based formulations. Due to the range of applications, treatment level is best determined by the end-user. The user must thoroughly test **FUNCTIONAL V-802P** for compatibility and desired performance under the conditions and temperature in the intended application.

Typical Treat Rates of FUNCTIONAL V-802P in Pure Water for ISO 22 - 460

ISO VG	22	32	46	68	100	150	220	320	460
wt% V-802P	20	24	27	30	34	37	41	44	47

HANDLING:

FUNCTIONAL V-802P flows readily at ambient temperature and may be pumped into transfer systems. **Caution - Spillage of the product will result in very slippery surfaces.** Use diatomaceous earth to adsorb as much material as possible. Store the product at temperatures above 5°C and below 40°C. Replace container lid tightly after use to prevent evaporation and to maintain product quality. Exposure to air more than a few hours may cause formation of a surface film.

FUNCTIONAL V-802P has a shelf life of 6 months. Avoid mechanical shearing during handling and blending to minimize loss of tackiness. Safe handling precautions are the same as those to be used with tackifiers; see the current Safety Data Sheet.

This Technical Data Sheet and the Safety Data Sheet contain information believed to be accurate and reliable. No warranty is made, however, to information beyond the control of FUNCTIONAL PRODUCTS INC. The engineering and management personnel of the user are responsible for determining the suitability of this or any product for any specific application, and this information is offered to them for that purpose.

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