

### FUNCTIONAL V-4028

#### Pellet Form Polymeric Additive for Grease

##### Application:

**FUNCTIONAL V-4028** is rapidly dissolving pellet polymer, specifically designed for use in greases. **FUNCTIONAL V-4028** is a reactive, multi-functional grease polymer that interacts with the grease soap matrix and greatly boosts the soap's performance. Unlike pre-dissolved polymers, the absence of diluent oil permits formulating flexibility and does not alter customary manufacturing processes for grease. Greases made with **FUNCTIONAL V-4028** have better mechanical stability than those using polymers designed for motor oil.

**FUNCTIONAL V-4028** utilizes a more oil-soluble polymer feedstock than **FUNCTIONAL V-4020**. This provides faster incorporation, higher grease consistencies, and the ability to pre-dissolve the pellet at up to 5-7wt% as a concentrate in oil before adding to the kettle.

##### Composition:

**FUNCTIONAL V-4028** is a modified copolymer based on ethylene and propylene.

Typical Properties	
Appearance	White pellet
Specific Gravity	0.85 - 0.87
Thickening Efficiency (1% in ISO 32 Gr. I)	9.5 - 12.5 cSt @ 100°C

##### Treatment Level:

Typical treatment level of 0.25 – 1.0% is used in greases to confer water resistance and mechanical stability.

##### Handling:

**FUNCTIONAL V-4028** may be added either immediately after the saponification reaction or with the cooling oil. When used in greases, **FUNCTIONAL V-4028** is a non-hazardous material; see the current Safety Data Sheet.

**FUNCTIONAL V-4028** is resistant to caking and no particular precautions are needed in storage.

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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.

Issued: 2020.01.06

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