

FUNCTIONAL V-207

POLYMER FOR GREASES (IN QUICK-DISSOLVING POWDER)

APPLICATION:

FUNCTIONAL V-207 is rapidly dissolving powdered polymer, specifically designed for use in greases. Unlike pre-dissolved polymers, the absence of diluent oil permits complete formulating flexibility. Greases made with **FUNCTIONAL V-207** have better mechanical stability than those using polymers designed for applications like motor oil.

COMPOSITION:

FUNCTIONAL V-207 is a copolymer based on ethylene and propylene. It is chemically different from motor oil V.I. improver polymers in its monomer content and physically distinguished by its fine particle size.

Typical Properties	
Appearance	White rubber powder
Specific Gravity	0.87
Thickening Efficiency (1.0% in ISO 32 paraffinic base oil)	11.1 cSt @ 100 °C

TREATMENT LEVEL:

Typical treatment level of 1.0 – 2.0% is used in greases to confer water resistance and mechanical stability. See performance below:

	POLYMER TREAT LEVEL	ASTM- D4049 Water Spray Off	ASTM D 1831 60 Strokes & 10,000 Strokes	ASTM D 1831 60 & 100,000 Strokes	ASTM D-217 Roll Stability % Change	Dropping Point
BASE GREASE	0%	73%	-24	-34	11%	> 540 °F
V-207	0.75%	18%	-6	-9	7.1%	> 516 °F

HANDLING:

FUNCTIONAL V-207 is resistant to caking and no particular precautions are needed in storage. Dissolving is best accomplished with continuous agitation, at temperatures of at least 200 °F (95 °C). When used in greases, **FUNCTIONAL V-207** should be incorporated into the batch right after the addition of the cooling oil to allow sufficient time (1 -3 hrs depending on the batch size) and high enough temperature for dissolving. **FUNCTIONAL V-207** is non-hazardous material; see the current MSDS.

This Technical Data Sheet and the Material 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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