

FUNCTIONAL V-206

Grease Polymer – OCP in Pellet Form

APPLICATION:

FUNCTIONAL V-206 is an olefin copolymer pellet used to improve water resistance, tackiness, and mechanical strength of greases formulated in petroleum and hydrocarbon oils including calcium sulfonate, aluminum complex, and lithium complex thickeners.

FUNCTIONAL V-206 is highly effective in both ASTM-D4049 water spray-off and ASTM-D1264 water washout water resistance test methods. **FUNCTIONAL V-206** will also reduce ASTM-D6184 oil bleed and mechanical losses by worked cone penetration and ASTM-D1831 roll stability. Performance depends on treat level and the exact grease formulation including thickener, base oil type, and base oil viscosity grade.

COMPOSITION:

FUNCTIONAL V-206 is an olefin copolymer, derived from ethylene and propylene.

Typical Properties	
Appearance	Clear to Off-White Pellet
Specific Gravity	0.86 – 0.88
% Ethylene	70 – 75%
Suggested Treat Level in Grease	1wt%

TREATMENT LEVEL:

Treatment levels of 0.5-2.0% are typical in greases. The product should be prepared at 0.5%, 1.0%, and 2.0% to find the optimal treat to meet all performance targets in a given grease formulation.

HANDLING:

FUNCTIONAL V-206 must be added to grease after saponification at 80-100°C (176 - 212°F) with the addition of cooling oil. Maintain temperature and stir for 1-3 hours. Some greases may require higher temperatures of 100-120°C (212-248°F) for 1-3 hours; always confirm temperatures and times in pilot before production.

FUNCTIONAL V-206 should be stored below 104°F (40°C) and is a non-hazardous material; see the current SDS.

Handling Details	
Form	Pellet: 1/8-1/4" / 5-7mm
Bag Weight	55 lbs / 25 kg
Wrap	EVA, 87°C melt

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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