

FUNCTIONAL PRODUCTS INC.

Innovative Chemistry for Lubricants

Technical Data Sheet

Dow Premium OCP Viscosity Modifiers

Bale and Pellet Form Olefin Copolymers

APPLICATION:

FUNCTIONAL V-101 and **V-113** are viscosity index (V.I.) improver polymers supplied in bale form. **FUNCTIONAL V-201** is supplied in pellet form. These olefin copolymers can be dissolved in oil to prepare multi-grade engine oils and treatments, high VI lubricants, and industrial fluids.

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

COMPOSITION:

FUNCTIONAL V-101, V-113, V-201, and V-206 are olefin copolymers, derived from ethylene and propylene.

Typical Properties				
Product	FUNCTIONAL V-101	FUNCTIONAL V-113	FUNCTIONAL V-201	FUNCTIONAL V-206
Form	Bale	Bale	Pellet	Pellet
Specific Gravity	0.86 – 0.88	0.86 – 0.88	0.86 – 0.88	0.86 – 0.88
% Ethylene	45 – 55%	50 – 60%	60 – 70%	70 – 75%
Thickening Efficiency (1wt% in ISO32 Gr. I, 100°C)	13.0 cSt	14.6 cSt	21.0 cSt	--
Treat for 1000 cSt @ 100°C (100N Gr. II)	9.0wt%	6.6wt%	5.4wt%	--
Solution Viscosity (1wt% in 100N Gr. II, 100°C)	10.1 cSt	12.2 cSt	15.0 cSt	--
Shear Stability Index, PSSI (ASTM D6278)	45 SSI	50 SSI	60 SSI	--
Suggested Treat Level in Grease	--	--	1wt%	1wt%

TREATMENT LEVEL:

Treatment levels of 0.5-2.0% are typical in industrial lubricants and greases.

HANDLING:

Dissolving is best accomplished with continuous agitation at temperatures of 176-210°F (80-100°C).

Store bales below 122°F (50°C) and pellets below 104°F (40°C). Non-hazardous material; see the current SDS.

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: 2020.02.06

Functional Products, Inc. 8282 Bavaria Rd. Macedonia, Ohio 44056

Ph: 330.963.3060 Fax: 330.963.3322