

FUNCTIONAL PRODUCTS INC.
Innovative Chemistry for Lubricants

Tackifier Additives



Keep your stuff where it belongs.

Dial in tack and anti-mist performance by chemistry, base fluid, shear stability, and application:

• Industrial • PARATAC® • Synthetic • Biobased • Food Machinery • Grease • Water • Silicone • *and More*

Explore more options at functionalproducts.com

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Find Your FUNCTIONAL Product

Functional Products Inc. can customize any selection for specific performance, economics, and handling requirements based on your application and your blending site's capabilities:

- **Diluent Oil** – FPI uses paraffinic oils (Group I, II, III), PAO (Group IV), white oils, naphthenic oils, vegetable oils, synthetic esters, silicone oil, and water to provide application-specific options.
- **Chemistry** – Different active polymers offer advantages that complement different applications.
 - **PIB** – Polyisobutylene: best tackiness and lower handling viscosities.
 - **OCP** – Olefin copolymer: best thermal and mechanical stability.
 - **Proprietary** – Unique polymer chemistries developed and optimized by FPI.
- **Viscosity** – Lower viscosity favors convenient handling; higher viscosity can reduce treat rate.
- **Color** – Typical color of the product, specified by ASTM D1500.
- **Shear** – Relative measure of how well tackiness persists in severe-duty use:
 - Best > Better > Good > Fair > Poor
- **String Length** – Measured at 0.5wt% in 300N Group II oil using the *ductless siphon test method*.

Industrial Lubricant Tackifiers

Tackifiers vary by the molecular weight of the active polymer, the concentration and viscosity, and by diluent oil. **FUNCTIONAL V-176** is an excellent start to any formulating project.

Product	Base Oil	Chemistry	Viscosity, 100°C	Color	Shear	String Length
V-176	Paraffinic	PIB	2900	Light Yellow	Good	46
V-178	Paraffinic	PIB	4000	Light Yellow	Good	58
V-172	Paraffinic	PIB	4000	Light Yellow	Better	20
V-175	Paraffinic	PIB	5900	Light Yellow	Fair	80
V-177	Paraffinic	PIB	10500	Light Yellow	Good	62
V-198B	Group I	PIB	4500	Orange	Good	37
V-178N	Naphthenic	PIB	4000	Amber	Good	40
V-188	Paraffinic	OCP	4000	Light Yellow	Best	16
V-298	Tech. White Oil	PIB	4000	Colorless	Good	53

V-100 Series tackifiers are produced in light-yellow to yellow paraffinic oil. **V-100B Series** are in an yellow to orange Group I base stock and **V-100N Series** are in an orange to dark-orange naphthenic base stock. **V-200 Series** tackifiers are always colorless for when appearance matters.

PARATAC® and PARATAC XT®

Functional Products Inc. is proud to offer legacy tackifiers **PARATAC** and **PARATAC XT** for all applications. Both options are high quality tackifiers with longstanding approvals in industrial and automotive applications.

Product	Base Oil	Chemistry	Viscosity, 100°C	Color	Shear Stability	String Length
PARATAC	Paraffinic	PIB	2950	Light Yellow	Better	23
PARATAC XT	Paraffinic	PIB	750	Light Yellow	Good	41

Synthetic-Based Tackifiers

FUNCTIONAL V-300 Series is formulated in synthetic Group III base oil which adds greater oxidation stability over the colorless V-200 or V-400 products. “P2” products like **FUNCTIONAL V-188P2** are a variant of an original petroleum tackifier using low viscosity PAO.

Product	Base Fluid	Chemistry	Viscosity, 100°C	Color	Shear	String Length
V-378	Group III	PIB	6250	Colorless	Good	44
V-388	Group III	OCP	4000	Colorless	Best	22
V-188P2	PAO	OCP	9200	Colorless	Best	20

Anti-misting Agents

Anti-misting agents are similar to tackifiers but provide mist suppression without contributing tackiness to the lubricant. Anti-mist additives **FUNCTIONAL MW-612** and **V-162** greatly reduce the formation of mist and are especially in equipment that lacks mist-collecting systems. **FUNCTIONAL V-421** is available as an NSF HX-1 incidental food contact version of **FUNCTIONAL V-162**.

Product	Base Oil	Chemistry	Viscosity, 40°C	Color	Shear	Application
V-162	Paraffinic	PIB	850	Light Yellow	Excellent	Industrial oils
V-421	H1 White Oil	PIB	3000	Colorless	Excellent	Food grade, NSF HX-1
MW-612	Water/Oil	Proprietary	10	Colorless	Excellent	For emulsions

Biobased or Biodegradable Tackifiers

Natural oils, synthetic esters, and other biodegradable or ‘environmentally acceptable lubricants’ require unique tackifiers. Functional Products Inc. features a number of additives on the European Ecolabel Lubricant Substance Classification (LuSC) list. See the **Biobased Additives** brochure.

Product	Base Fluid	Chemistry	Viscosity, 100°C	Color	Shear	Ecolabel?
V-188P2	PAO	OCP	9250	Colorless	Best	Yes
V-515	Triglyceride	Proprietary	8000	Yellow	Good	Yes
V-584	Triglyceride	Proprietary	1250, 40°C	Amber	Fair	Yes

Tackifiers for Grease

Highly concentrated **FUNCTIONAL V-177** is recommended for easily adding tack and clinginess to grease. If severe loss of tackiness occurs during grease milling then use **FUNCTIONAL V-188**. For further benefits like oil bleed reduction and water resistance, more specialized ‘grease polymers’ like **FUNCTIONAL V-191** or **FUNCTIONAL V-207** are recommended. See the **Grease Additive Brochure** for more options.

NSF HX-1 Tackifiers

For Food Machinery Lubricants and Greases

Food machinery lubricants rated require rigorous compliance to NSF standards. V-400 Series products are formulated in either white oil or PAO. V-500 Series products are formulated in NSF registered vegetable oils or esters, and may also be European Ecolabel registered. See the **Food Machinery Additive** brochure.

Product	Base Oil	Chemistry	Viscosity, 100°C	Color	Shear	String Length	HX-1?
V-422	White Oil	PIB	3000	Colorless	Good	70	Yes
V-425	White Oil	OCP	3000	Colorless	Best	15	Yes
V-475	White Oil	PIB	1650	Colorless	Fair	82	Yes
V-188P2	PAO	OCP	9200	Colorless	Best	20	Yes
V-584	Veg Oil	Proprietary	1250, 40°C	Amber	Fair	5	Yes

Water-Based Tackifiers

FUNCTIONAL V-802 is an environmentally friendly liquid additive that thickens and confers tack to water or emulsions of water and soluble oils. Other applications include: flocculating agents, home care/cleaning, and ceramic applications, including as a binder for powders and an anti-sag agent in paints.

Product	Base Fluid	Chemistry	Color	pH	NSF HX-1
V-802	Mixture	Proprietary	White	Neutral	Yes

Silicone Tackifier and Anti-Mist

FUNCTIONAL V-870 is a tackifier for lubricants based in silicone or silicone/petroleum blends.

FUNCTIONAL V-870 is an effective anti-mist agent in low viscosity silicone sprays or lubricants to prevent unwanted aerosol formation.

Product	Base Fluid	Chemistry	Viscosity, 100°C	Color	Shear
V-870	Proprietary	Proprietary	8500	Colorless	Good

Not finding exactly what you need?
We can help you navigate your options –
sales@functionalproducts.com