

Hydraulic-Fluid	Anti-Mist	Engine Oils	Gear Oils	Metal-working	Lubricating Oils	Greases	Bar & Chain	Biobased	NSF
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Tackifiers		Typical viscosity cSt @100C	Treat Level wt %								
V-176	Good shear stability and good string length. PIB in paraffinic oil.	3,000	0.5 - 2.0								
V-177	Concentrated tackifier in PIB, with good shear stability and stringiness.	10,500	0.5 - 2.0								
V-178	Good shear stability and good string length. High concentrate PIB in paraffinic oil.	4,000	0.5 - 2.0								
V-188	Excellent shear stability and good string length. OCP in paraffinic oil.	4,000	0.5 - 2.0								
V-198A	Excellent string length and fair shear stability. PIB in paraffinic oil. Use V-498 for food grade applications.	4,500	0.5 - 2.0								
V-378	Excellent thermal stability, good shear stability and string length. PIB in Group III oil.	5,000	0.5 - 2.0								
V-422	Good shear stability and good string length. PIB in food grade technical white oil.	3,000	0.5 - 2.0								
V-570	Good shear stability and good string length. Vegetable oil base.	8,000	3.0 - 10.0								
V-584	All natural, food grade vegetable based tackifier. Excellent tack.	600	3.0 - 10.0								

Viscosity Modifiers		Shear Stability Index (PSSI) ASTM D-6278	1% Treat in ISO 32 cSt @100C	% Treat to Obtain 1000 cSt at 100 C	Viscosity cSt @100C	Treat Level wt%						
V-101	Bale olefin copolymer.	45	13.0 cSt	10.0		0.5 - 2.0						
V-158	OCP in paraffinic oil.	50	12% = 11 cSt		1,000	7.0 - 10.0						
V-160	Shear stable polymer solution in paraffinic oil.	25	12% = 11 cSt		1,000	5.0 - 10.0						
V-255	Shear stable polymer in pellet form.	25	10.5 cSt	12.0		0.5 - 2.0						
V-460	Food grade, shear stable viscosity modifier, solution.	20	12% = 14 cSt		3,000	5.0 - 10.0						
V-508 S	Concentrated solid polymer for vegetable oils, esters, and synthetics.	35	8.0 cSt	10.0		1.0 - 5.0						
V-515	Polymer solution in vegetable oil.	20	12% = 12 cSt		8,000	2.0 - 16.0						
V-516	Polymer solution in vegetable oil, excellent oxidative stability.	20	12% = 12 cSt		6,000	1.0 - 5.0						

Grease Additives		Treat Level wt %							
V-207	Quick dissolving powder polymer added to grease with cooling oil. Superior shear stability and water spray off for almost all grease types.	0.5 - 2.0							
V-211	Quick dissolving powder polymer added to grease with cooling oil. Excellent tack, good shear stability and water spray off.	0.5 - 2.0							
V-4020	Pellet polymer for water spray off and shear stability. Added at initial grease reaction.	0.2 - 0.5							
V-4004A	Liquid polymer to improve shear stability and water spray off. Easy handling.	1.0 - 5.0							
DP-200	Improves dropping point by 25° C for simple lithium grease.	0.5							

Specialty Packages & Additives		Treat Level wt %							
AO-520	Rapidly dissolving powder, anti-oxidant for vegetable based oils. Improved oxidative stability AOCs Cd 12b data.	0.15 - 0.5							
CA-447	Coupling agent that improves polarity of food grade oils, to enable use of additives.	3.0 - 7.0							
CI-426	Corrosion inhibitor and anti-wear package for food grade applications.	0.5 - 2.0							
EVO-530	Vegetable emulsifier package used with 50% water to lubricate pistons on pumps and compressors. Performs to -25 C with excellent phase stability.	15 - 30							
GA-583	Biobased Gear Oil Package 70 pound > Timken and weld load 250 kg. Additive package for rock drill, grease, or open gear application.	2.0 - 7.0							
HF-546	Biobased hydraulic fluid package, based on HF-560. Meets MIL-PRF-32073, Vickers Vane, and Oxidation tests. TMP compatible.	1.85							
HF-762	Robust CI, AW, EP hydraulic fluid package with great thermal stability and demulsibility.	0.5 - 1.0							
V-162	Anti-mist additive for oil based coolants. Use MW-612 for aqueous or synthetic fluids.	0.02 - 0.1							
WA-24	Way oil package. Cincinnati Milacron test approved. Excellent demulsibility. Group I Oil compatibility.	1.75							
WA-64	Light color, low odor, compatible in a range of base oils. Cincinnati Milacron & LS-2 approved.	1.75							
CMR-1001	Biobased concrete mold release product that does not stain aluminum or steel forms.	3.0-6.0							

Cold Flow Improvers		Treat Level wt %							
PD-555	Excellent pour point in vegetable oils. Performs up to -33° C. Compatible in sunflower, soybean, canola and TMP-TO.	0.1 - 1.0							
PD-600	Used in hydraulic oils, pneumatic tools or chain saws. Response rate to -40°C.	0.1 - 0.5							
PD-610	Used in hydraulic oils, pneumatic tool, tractor fluids, chains saws. Response rate -55 ° C depending on base oil.	0.1 -0.5							

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Innovative Chemistry For Lubricants

## Purchasing Information

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