

SYNGREASE XT 1

Overview: SynGrease XT 1 is a grease formulated to provide superior performance in the toughest conditions. SynGrease XT 1 is formulated with synthetic esters that enable the products to protect equipment at a very wide temperature range while also having limited impact on the environment. The grease provides excellent protection for equipment without using Moly to further reduce its impact on the environment and to enhance its cold weather performance. SynGreaseXT 1 has mobility at temperatures as low as -40C.

Specifications, Approvals, Recommendations:

- USDA BioPreferred Program
- Classified as Environmentally Acceptable Lubricants (EAL's) as per the EPA's 2013 U.S. Vessel General Permit (VGP)

Physical Properties	XT 1
NLGI Grade	1
Penetration, ASTM D217	318
Color	Amber
Texture	Smooth
Viscosity, ASTM D445 @40°C, cSt	100
Viscosity, ASTM D445 @100°C, cSt	15
Viscosity Index, ASTM D2270	157
Timken OK Load, ASTM D2509, lb	80 PASS
4 Ball Weld, ASTM D2596, Kg	250
4 Ball Average Scar, ASTM D2266, mm	.61
Rust Test, ASTM D665	3 PASS
Dropping Point, ASTM D2265, °F (°C)	>350 (176)
Water Washout, ASTM D1264, % loss max	
Environmental Stewardship: Meets EPA requirements to be classified as an EAL per the 2013 VGP	
Readily Biodegradable (meaning>60%) OECD 301B, %	PASS 62%
Minimally Toxic OECD 201 - Algae (EC 50), 72 hr, mg/L OECD 202 - Daphnia (EC 50), 48 hr, mg/L OECD 203 - Fish (LC 50), 96 hr, mg/L	PASS >20,000 mg/L >10,000 mg/L >56,000 mg/L
Not Bioaccumulative* [*Calculated value as per EPA standard]	PASS
Additional Environmental Features and Characteristics	
Bio-based Content, ASTM D6866, %	

Applications & Industries: Any industry (hydroelectric powered dams, construction, refuse, mining, dredging, marine, agriculture, oil & gas, plant operations, etc.) utilizing equipment with a need for a grease capable of handling extreme temperatures. Suitable for equipment where a release into the environment is possible or where a leak or spill could reach a waste stream. Suitable for use in automatic lubrication systems or via manual application.

