

PRODUCT DATA SHEET



BIODEGRADABLE TUG COUPLER GREASE

Biodegradable Tug Coupler Grease is an organo-clay grease for lubrication of articulated tug systems formulated using readily renewable bio-base. The Extreme Pressure and load-carrying properties of **Biodegradable Tug Coupler Grease** provide maximum protection for tug coupler rams. **Biodegradable Tug Coupler Grease** also contains non-toxic lubricating solids to further enhance ram protection and reduced friction. The low toxicity and biodegradability of **Biodegradable Tug Coupler Grease** ensure maximum environmental and worker safety.

Applications

- Designed to lubricate the rams of the Articulated Tug System.
- Recommended where a grease with exceptional biodegradability. Low toxicity and low environmental impact is required.

Features and Benefits

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٠	Organo-clay thickener	Mechanically stable and water resistant for superior retention properties.		
٠	Biodegradable	Biodegrades into harmless substances.		
•	Low water washout	Product continues to lubricate when operating in wet environments.		
٠	Environmentally safe	Non-toxic additives increase performance without causing severe damage to the environment.		

General Description

Biodegradable Tug Coupler Grease is a bio-based grease that is designed to meet the lubrication requirements of the Articulated Tug Coupling System. **Biodegradable Tug Coupler Grease** has the added benefit of being biodegradable to limit the risk of environmental harm during operation. **Biodegradable Tug Coupler** features an organo-clay thickener which provides mechanical stability and water resistance for operating in wet conditions. **Biodegradable Tug Coupler Grease** is formulated with a unique blend of Extreme Pressure and rust inhibition additives to reduce friction and extend equipment life.

Product No. 56854

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BIODEGRADABLE TUG COUPLER GREASE <u>TYPICAL PROPERTIES</u>

<u>Product No.</u>	<u>56854</u>
NLGI Grade	1
Penetration, worked (60 strokes), ASTM D217 mm/10	325
Thickener Type	Organo-clay
Base Fluid Type	Natural
Viscosity (Base Fluid), ASTM D445 @ 40°C, cSt @ 100°C, cSt	101 20.0
Viscosity (Base Fluid), ASTM D2161 @ 100°F, SUS @ 210°F, SUS	507 100
Viscosity Index (Base Fluid), ASTM D2270	222
Dropping Point, ASTM D2265 °C (°F)	>260 (> 500)
4-Ball EP Test, ASTM D2596 Weld Load, kg	250

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BIODEGRADABLE TUG COUPLER GREASE

TYPICAL PROPERTIES

4-Ball Wear Test, ASTM D2266 @ 1200 rpm, 40 kg, 1 hr, 75°C Scar Diameter, mm	0.94
Pour Point (Base Fluid), ASTM D97 °C (°F)	-39 (-38)
Flash Point (Base Fluid), ASTM D93 °C (°F)	206 (403)
Biodegradability, ASTM D7373 Biodegradability in 28 Days, %	50-55
Useful Temperature Range °C (°F)	-10 to 70 (14 to 158)
Specific Gravity, ASTM D1475, 60/60°F	0.910
Density, ASTM D1475 @ 16°C (60°F), lb/gal	7.59
Texture	Tacky
Color	Tan

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