

## AbsoLube 411A

AbsoLube 411A is a synthetic grease made from polyfluoropolyether (PFPE) fluid thickened with polytetrafluoroethylene (PTFE) polymer. This grease has excellent low temperature properties and is inert to oxygen and other aggressive chemicals. The PFPE fluid has extremely low surface tension and this gives AbsoLube 411A the ability to work in applications where other lubricants fail due to lubricant starvation. The fully fluorinated chemistry is completely compatible with a vast majority of plastics and elastomers.

BASE OIL CHARACTERISTICS		TYPICAL VALUE *	
<b>Type</b>		PFPE	
<b>Temperature Service Range (°C)</b>		-60 to 260	
<b>Flash Point (°C) (ASTM D92)</b>		None	
GREASE CHARACTERISTICS		TYPICAL VALUE *	
<b>Thickener</b>		PTFE	
<b>Color</b>		White	
<b>Appearance</b>		Smooth	
<b>NLGI Grade</b>		2	
<b>Penetration (ASTM D217 / DIN 51804-T1)</b>	Unworked	250 min.	
		60X	265-295
	Worked	10,000X	261
		100,000X	249
<b>Dropping Point (°C) (ASTM D2265 / DIN ISO 2176)</b>		260 min.	
<b>Oil Separation (ASTM D6184)</b>	24h at 100°C	10% max.	
<b>Evaporation (CTM-1)</b>	24h at 100°C	3% max.	
<b>Water Washout (ASTM D1264 / DIN 51807-T2)</b>	60 min at 79°C	0.14%	
<b>Copper Corrosion (ASTM D130 / DIN 51811)</b>	24h at 100°C	1b max.	
<b>Apparent Viscosity</b> (Brookfield Viscometer T-C spindle, 1 rpm)	-40°C	2,260,000 cP	
<b>Four Ball Wear (ASTM D2266 / DIN 51350-T5)</b>	60 min 1200 RPM 75°C 40kg <sub>f</sub>	0.78mm	
<b>Specific Gravity (CTM-2)</b>	25°C	1.96	
<b>Oxidation Stability (ASTM D942 / DIN 51808)</b>	168h at 100°C	0 kPa	
<b>Low Temperature Torque (ASTM D1478)</b>	-40°C	Start	449 g-cm
		Run 10 min	332 g-cm
		Run 60 min	319 g-cm

\*The values stated in this Product Data Sheet are Typical Values and **must not** be used as QC Specifications for this product. Please contact the Global Technical Services department for QC specifications for this product.