Typical Properties

NLGI Grade (worked)	1 1/2
Unworked Penetration, 77°F/25°C (ASTM D-217)	290-320
Dropping Point °F (ASTM D-2265)	None
Roller Bearing Rust Test (ASTM D-1743) - Rating	1,1,1 (pass)
Four Ball EP Test (ASTM D-2596)	
Weld Point, kg	700
Load Wear Index, kg	110
Four Ball Wear Test (ASTM D-2266)	
Scar Diameter, mm	.46
Coefficient of Friction	.1
Falex Continuous Load (ASTM D-3233)	
Failure Load lb (Pounds Force)	4,500
Timken EP Test (ASTM D-2509)	
OK Load, lbs	70
Fail Load, lbs	75
FZG (Four Square Gear Test) DIN 51-354 (Base oil only)	+13th Stage
Oxidation Test (ASTM D-942) - PSI Loss at 100 hr.	2
Water Washout Test (ASTM D-1264) - % Loss 175°F/79°C	0.0
Water Spray Off (ASTM D-4049) - % wt, Max.	8.6
Oil Separation, (weight %), FTM321.3	2.3
Centrifugal Oil Bleed (MM-1406) - % Oil Bleed	2
Pressure Oil Separation Test, U.S. Steel Method	
Grams of Oil Seperated	.30
Lincoln Ventmeter	
PSI @ 70 °F	0
PSI @ 50 °F	100
PSI @ 30 °F	200
PSI @ 20 °F	420
PSI @ 0°F	650
USS Mobility Test (USS DM-43)	
30°F, g/min.	0.95
20°F, g/min.	0.47
0°F, g/min.	0.14
o i , g/iiiii.	0.14
Base Oil Propertiiss	
Viscosity, Cst @ 40°C (ASTM D-445)	2,960
Viscosity, Cst @ 100°C (ASTM D-445)	132
Viscosity, Cst @ 210°F (ASTM D-445)	138
Viscosity, SUS @100°F (ASTM D-445)	16,112
Viscosity, SUS @ 210°F (ASTM D-445)	641
Viscosity Index (ASTM D-2270)	129
Flash Point F°/C° (ASTM D-92)	525°F/274°C
Fire Point F°/C° (ASTM D-92)	590°F/310°C
Pour Point F°/C° (ASTM D-97)	5°F/-15°C



Typical Properties

NLGI Grade (worked)	1 1/2
Unworked Penetration, 77°F/25°C (ASTM D-217)	290-320
Dropping Point °F (ASTM D-2265)	None
Roller Bearing Rust Test (ASTM D-1743) - Rating	1,1,1 (pass)
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Water Washout Test (ASTM D-1264) - % Loss 175°F/79°C	0.0
Water Spray Off (ASTM D-4049) - % wt, Max.	8.6
Oil Separation, (weight %), FTM321.3	2.3
Centrifugal Oil Bleed (MM-1406) - % Oil Bleed	2
Pressure Oil Separation Test, U.S. Steel Method	
Grams of Oil Seperated	.30
New Numbers	Old numbers

	New Numbers	Old numbers prior to 5/1/03
Lincoln Ventmeter		
PSI @ 70 °F	0	450
PSI @ 50 °F	100	670
PSI @ 30 °F	200	800
PSI @ 20 °F	420	1400
PSI @ 0 °F	650	1900
USS Mobility Test (USS DM-43)		
30°F, g/min.	0.95	
20°F, g/min.	0.47	
0°F, g/min.	0.14	.08
Base Oil Propertiiss		
Viscosity, Cst @ 40°C (ASTM D-445)		2,960
Viscosity, Cst @ 100°C (ASTM D-445)		132
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MATERIAL SAFETY DATA SHEET

Manufactured For: Schaeffer Mfg. Company **Address:** 102 Barton Street Address St. Louis, MO 63104 SECTION 1 - PRODUCT INFORMATION

Chemical Family: Petroleum Hydrocarbons and Additives **XTEK Formula 800 Trade Name:** SECTION 2 - HAZARDOUS INGREDIENTS COMPONENTS-CHEMICAL NAMES AND COMMON CAS **Exposure Limits** Number TVI PEI mg/m³ ppm mg/m³ ppm Mixture of Petroleum Oils 64742-16-1, 55-75 64741-56-6. 64742-65-0, 64742-57-5, 64742-62-7. 64742-54-7 Polyalphaolefin Synthetic Base Fluid 68037-01-4 1-15 5 5 Acetylene Black 1333-86-5 1-4 3.5 3.5 7782-42-5 1-4 15 Graphite MPCCF 1317-33-5 Molybdenum Disulfide 1-4 10 15 Olefin Copolymer Tackiness Additive - Mixture 15-30 NE NE 71011-25-2 NE Organophilic Clay 4-10 NE Section 3 - PHYSICAL DATA **Boiling Point:** >600°F/315.5°C 1.03 Specific Gravity: Vapor Pressure (mm, Hg): Not Determined % Volatile: Nil Vapor Density (Air = 1): Not Determined Evaporation Rate: (=1) Not Determined Solubility in Water: Insoluble pH: Not Applicable Appearance and Odor: Silver, black color, tacky petroleum odor. SECTION 4 - FIRE AND EXPLOSION HAZARD DATA Flash Point (Method) °F/°C: 522°F/272.22°C C.O.C. Flammability Limits UEL & LEL ---- Not Determined (ASTM D-92) Extinguishing Media: Carbon dioxide foam, dry chemical foam, sand, earth, waterfog Special Fire Fighting Procedures: For fires involving this material, do not enter any enclosed or confined space without protective equipment including self-contained breathing apparatus Unusual Fire & Explosion Hazards: Dense black smoke SECTION 5 - REACTIVITY HAZARD DATA STABILITY [X] WILL NOT OCCUR [X] STABLE JUNSTABLE Hazardous Decomposition [] WILL Conditions to Avoid: Incompatibility (Mat. to avoid): Strong oxidizers and reducers Hazardous Decomposition Products: Oxides of carbon, sulfur and by products of incomplete combustion Conditions to Avoid: None **SECTION 6 - HEALTH HAZARD DATA** Threshold Limit Value and Sources: 5.0/mg/m³ for oil mist. OSHA & ACGIH. **Acute Effects of Overexposure:** Ingestion: Nausea and Diarrhea. Tackiness agent in this product may be possibly coagulated by stomach acids **Eye Contact:** Irritation and redness to eyes Skin Contact: Prolonged and repeated contact with the skin can cause irritation and redness to skin. Inhalation: Vapors can be given off under high heat conditions excessive breathing of vapors can cause irritation of the respiratory tract. CHRONIC EFFECTS OF OVEREXPOSURE: None currently known **Emergency and First Aid Procedures:**

Swallowing: If victim is conscious give 2 glasses of water to drink. Do not induce vomiting. Seek medical attention immediately.

Skin: Wash skin thoroughly with soap and water. Launder contaminated clothing.

Inhalation: Remove victim to fresh air. If breathing is labored administer oxygen. If breathing has stopped start artificial respiration immediately

Eyes: Flush eyes with clear, cool, clean water for 15 minutes. Seek medical attention immediately

SECTION 7 – SPILL OR LEAK PROCEDURES

Environmental Impact: This material is not expected to present any environmental problems other than those associated with oil spills. If spilled into a watercourse, call the Coast Guard Toll Free No. 800-424-8802.

Procedures To Be Taken If Material Is Released or Spilled: Immediately absorb spilled material with absorbent clay or other suitable material. Shovel up and place in a hazardous waste disposal drum. Keep out of sewers and waterways.

Waste Disposal Method: Dispose of at an approved waste or disposal site facility in accordance with all applicable federal, state and local laws and regulations. This product is not considered to be an RCRA hazardous waste.

SECTION 8 - SPECIAL PROTECTION INFORMATION **Respiratory Protection:** None required under ordinary conditions of use. Ventilation: No special requirement under ordinary conditions of use and with adequate ventilation. **Eve Protection:** Goggles of face shield. Protective Clothing: Neoprene or oil resistant gloves.

OF-1049 Rev. (2001) Date Prepared: 12/20/01

SECTION 9 - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storage: Do not store near heat, spark, flame or strong oxidizers. Keep containers closed when not in

Special Comments: Remove oil soaked clothing, launder before reuse. Wash skin thoroughly with soap and water after handling and before eating, smoking and using toilet facilities. Keep away from food and feed products

SECTION 10 - ADDITIONAL HEALTH AND TOXICOLOGICAL DATA

HMIS & NFPA Ratings: Health = 1 Fire = 1 Reactivity = 0

This product does not contain any of the chemicals listed on the National Toxicology Program Annual Reports on Carcinogens, The International Agency for Cancer Research Monographs and OSHA's 1910.10 Subpart Z List.

This product does not contain any chemicals that are found on the State of California's Proposition 65 List for chemicals classified as potential reproductive or cancer causing agent.

SARA Title Information:

This product does not contain greater than 1% of any of the chemicals listed on the EPA's CERCLA 302/304 and SARA Title III Section 313 Lists.

All components of this material are on the US TSCA Inventory List. All the components of this material are in compliance with the Canadian Environment Protection Act, the EC Seventh Amendment Directive 921321EEC and the chemical notification requirements of Australia, Austria and the Environmentally Hazardous Substance Ordinance of Switzerland.

Although the information and recommendations set forth herein (hereafter referred to as information) are presented in good faith and believed to be accurate and factual as of the date hereof, Schaeffer Mfg. Company makes no representation as to the completeness or accuracy thereof. Information is supplied upon the condition that the person receiving the same will make their own determination as to its safety and suitability for their purposes prior to use. In no event will Schaeffer Mfg. Company be responsible for damages of any natures whatsoever resulting from the use or reliance upon information. No representation or warranty, either expressed or implied, of merchantability or fitness for a particular purpose is made with respect to information of the product to which the information refers.