

## Tri-Plex Universal Grease

SWEPCO 121 Tri-Plex Universal Grease is a multi-service grease that provides superior resistance to heat, shock, water and extreme pressure in a wide range of applications. It makes bearings run longer, cooler, smoother, quieter and more efficiently and increases both bearing life and equipment reliability.

### WITH PROPRIETARY TRI-PLEX CHEMISTRY

SWEPCO 121 is a high performance grease based upon SWEPCO's new, proprietary "Tri-Plex" chemistry ... an important advancement that produces a tighter molecular structure. This improvement and special polymer modification enhance a wide range of performance properties, including ... resistance to shearing, shock, high temperature oxidation, bleeding and water wash out.

Combine enhanced performance in these critical areas with SWEPCO's advanced EP performance, rust and corrosion protection and you have a new class of multi-service grease which lasts significantly longer and provides superior lubrication in the broadest possible range of applications.



### KEY BENEFITS

- The one grease for superior lubrication
- For all types of bearings and grease points
- Offers superior shear stability
- Protects bearings from wear
- Eliminates the need to stock multiple greases
- Extends greasing intervals -- Saves labor dollars
- Lowers bearing temperatures & reduces vibration
- Exceptional shock resistance
- Won't wash out or spray off
- Wide temperature range (-30° F to 450° F intermittent)
- Resists high temperature oxidation & bleeding
- Superior EP performance
- Reliable pumpability even in cold weather
- Special arctic grade has a recommended operating range of -40° F to 150° F
- Environmentally responsible

*Get the most for your grease dollar . . .*



TRANSPORTATION



AGRICULTURE



CONSTRUCTION



MANUFACTURING

*Enjoy superior multi-service lubrication and maximum grease life in a universal grease with SWEPCO 121.*

PERFORMANCE



# SWEPCO 121 TRI-PLEX UNIVERSAL GREASE

## MULTI-PURPOSE BEARING GREASE

Recommended for bearings of all types — ball, roller, tapered, thrust, needle and ball screw. Journal bearings, bushings, slideways, spherical bearings and ball joints. Plain, anti-friction and high rpm bearings. Greased gearing. Chassis, king pins, u-joints, disc brake calipers, trailer wheel bearings, couplings, fifth wheels, general manufacturing use up to 375° F continuous and 450° F intermittent, centralized lubrication systems. Low temperature applications down to -30° F. SWEPCO 121 provides cost effective lubrication in a wide range of agriculture, mining, construction, manufacturing, transportation, service and municipal applications.

## SUPERIOR SHEAR STABILITY

SWEPCO 121 holds up longer without shearing out. Worked penetration specifications show that it stays "in grade" longer, keeps its consistency in extended use and continues to provide superior lubrication.

## ENHANCED WEAR PROTECTION

SWEPCO 121 produces a tough, reliable film that offers enhanced protection to all types of bearings and grease points.

## EXCELLENT SHOCK RESISTANCE

The combination of a tighter chemical bond and polymer modification yield excellent shock resistance.

## RESISTS WASH OUT & SPRAY OFF

Again, the combination of stronger molecular structure and polymer enhancement produce a product with very good water washout and spray off resistance and improved resistance to performance degradation in the presence of moisture.

## WITHSTANDS HEAVY LOADS

An impressive Timken wear scar and load index demonstrate the superiority of SWEPCO 121's advanced formulation technology.

## RELIABLE SUB-ZERO PUMPABILITY

A grease with good shock resistance usually means tradeoffs in low temperature pumpability. But SWEPCO 121 provides outstanding performance in both areas as low as -40° F (-40°C) with the special *arctic grade*, which is especially well suited for centralized systems operating in extreme sub zero temperatures.

## WIDE TEMPERATURE RANGE

With a dropping point greater than 500° F and pumpability as low as -35° F, SWEPCO 121 has the temperature range to handle all but the most demanding applications.

## Typical Physical Characteristics

NLGI Consistency	..... #1	..... #2	.. Arctic
Penetration, 60 Stroke @77 °F,			
ASTM D-217	..... 325	..... 275	..... 302
Penetration, 10K Stroke @77 °F,			
ASTM D-217	..... 337	..... 295	..... 315
Penetration, % Shear Loss, 100k Strokes			
@77 °F, ASTM D-217	..... <10	..... <10	..... <20
Dropping Point, °F, ASTM D-2265	... >500	... >500	... >500
Base Oil Viscosity, cSt @40°C	..... 70.2	..... 228	..... 32.3
Base Oil Viscosity, cSt @100°C	..... 8.9	..... 14.6	..... 4.8
Color	.....	..... Clear Red	
Texture	.....	..... Buttery/Tacky	

## Typical Performance Characteristics

Timken OK Load, Lbs, ASTM D-2509	... >65	... >65	... >60
4-Ball Weld, Kg, ASTM D-2596	..... 400	..... 400	..... 315
Load Wear Index, ASTM D-2596	... 54.91	... 54.91	... 45.0
4-Ball Wear Test, Scar Diameter, mm,			
ASTM D-2266	..... 0.54	..... 0.54	..... 0.40
Water Washout, % Loss @175°F,			
ASTM D-1264	..... 2.5	..... 2.5	..... 5.0
Water Spray Off, %Loss,			
ASTM D-4049	..... <17	..... <17	..... <20
Automotive Wheel Bearing Leakage, Grams @265°F,			
ASTM D-1263, (10.0 Allowed)	... <1.0	... <1.0	... na
Rust Prevention, ASTM D-1743	..... Pass	... Pass	... Pass
Copper Strip Corrosion,			
ASTM D-130	..... 1A	..... 1A	..... 1A
Oil Separation, %, ASTM D-1742	... <1.0	... <1.0	... <2.0
Pumpability (by US Steel Grease Mobility Test)			
Grams/Min @0°F	..... >8	..... >1	..... >50
Grams/Min @-30°F	..... >1	..... na	..... >4
Lincoln Ventmeter, psi@ 0°F	..... na	..... na	..... 650
Lincoln Ventmeter, psi@ 30°F	..... 1050	..... na	..... 400
Lincoln Ventmeter, psi@ 74°F	..... 400	..... na	..... 325
Oxidation Stability, ASTM D-942			
PSI Loss @100 Hrs, max	..... 2	..... 1.5	..... 2
Recommended Maximum Operating Temp, °F,			
Continuous	..... 375	..... 375	..... 250
Intermittent	..... 450	..... 450	..... 300

Note: Users of the Arctic Grade should consider switching to NLGI #1 or #2 when ambient temperatures rise above 60-70° F (15-21° C).



**A Product of SPX Technology™.**

... the cutting edge performance SWEPCO  
Customers have come to expect since 1933



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