

TEC PLEX[®]

2220SBT ARCTIC GRADE, CORROSION RESISTANT SYNTHETIC GREASE

ARCTIC GRADE SERIES

TEC PLEX[®] 2220SBT is designed to protect precision parts and valves exposed to high pressure and water wash. Engineered with a synthetic base oil (PAO) and thickened with next-generation calcium sulfonate grease technology, this product provides maximum lubrication in a wide variety of operating temperatures (down to -40C) while protecting from salt and chemical corrosion using Daubert's proven military-grade rust preventive chemistry. Showing unparalleled stability under high shear and unpredictable temperatures, **TEC PLEX[®] 2220SBT** changes what's achievable in mechanical design.



TYPICAL APPLICATIONS

- Precision gears and bearings in heavy duty, moderate speed equipment, exposed to extreme cold.
- General chassis lubrication
- Wellhead valves in cold environment fracking

KEY FEATURES

- Grade 2 ISO 220 formulation.
- 100% Synthetic base oil (PAO)
- Inherent protection from rust and corrosion.
- Exceptional resistance to water spray off and washout, enhanced with water resistant polymers.
- Wide temperature range (-40F to >300F).
- Mechanically stable... virtually no consistency change during/after usage.
- Environmentally friendly formulation contains no antimony, barium, chlorine, phosphorus, zinc or free sulfur.



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GENERAL PURPOSE SERIES

PHYSICAL PROPERTIES	TEST METHOD	TYPICAL VALUES
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NLGI Grade	ASTM D217	2
Color	Visual	Blue
Texture	Visual	Smooth
Dropping Point, °C	ASTM D2265	316°C +
Worked Penetration, 60 Double Strokes, dmm	ASTM D217	265 - 295
Mechanical Stability		
<i>Worked Penetration 10,000 Double Strokes, % Change</i>	ASTM D217	< 3.0
<i>Worked Penetration 100,000 Double Strokes, % Change</i>	ASTM D217	< 3.0
<i>Worked Penetration 10,000 Double Strokes with 10% Water, % Change</i>	ASTM D217	< 3.0
Roll Stability, % change	ASTM D1831	< 3.0
Timken OK Load, kg	ASTM D2509	N/A
4-Ball EP:LWI, kgf	ASTM D2596	80
Weld Point, kg	ASTM D2596	620
4-Ball Wear, mm	ASTM D2266	0.50
Fretting Wear, mg	ASTM D4170	<10
Bearing Rust Protection	ASTM D1743	Pass
Salt Fog Corrosion, 1 mil d.f.t., hours	ASTM B117	>400
Wheel Bearing Leakage, grams	ASTM D4290	< 5
Bearing Life Performance, hours	ASTM D3527	150+
Bomb Oxidation, 100 hours @ 99°C, PSI Drop	ASTM D942	< 1
Water Washout, % removed	ASTM D1264	< 2
Water Spray Off, % removed	ASTM D4049	< 40
Oil Separation, % loss	ASTM D1742	<0.5
Copper Strip Corrosion	ASTM D4048	1b
Base Oil Viscosity, cSt	ASTM D445	
@ 100°C		25
@ 40°C		220
Viscosity Index		147
Emcor Corrosion, 3% NaCl	ASTM D6138	2,2

REFER TO MATERIAL SAFETY DATA SHEET FOR HEALTH AND SAFETY INFORMATION.

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612 Chestnut Street, Nanaimo, BC, Canada V9S 2L2
 Phone: 250-739-0960 Email: sales@coastlubricants.com Web: www.coastlubricants.com