

ThixoSUM Synthetic is specifically engineered to provide outstanding results in the most extreme conditions. The incredible flexibility in performance allows the grease to be used in both high and low speed operation and is the ideal application for centralized lube systems. Operates efficiently under extreme loads and pressures

ThixoSUM Synthetic uses an advanced thickening agent (Overbased Calcium Sulfonate) with PAO base oil and superior additive technology which exhibits a water resistance in excess of 20 times that of conventional grease thickeners.

ThixoSUM Synthetic: For use in centralized greasing systems and as a multipurpose high-performance grease to provide protection over a broad range of conditions.

Product ID#	3420-400-30 (400g Tube x 30)	3420-17-1 (17kg Pail) 3420-55-1 (55kg Keg)	3420-180-1 (180kg Drum)
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ThixoSUM Synthetic demonstrates outstanding shear stability, and exhibits a broad temperature range (-40°C to

>250°C) dependent on application requirements. Excellent water and corrosion resistance. The use of a premium antioxidant and a high performance, low viscosity Polyalphaolefin (PAO) ensures superior thermal and oxidation stability.

Proven to deliver performance in mining, industrial manufacturing, railway, marine, agriculture, forestry and construction industries.

NLGI GC-LB

TYPICAL PROPERTIES	ASTM METHOD	ThixoSUM Synthetic
NLGI Consistency Grade		0.2
Appearance		Tan, Smooth, Buttery
Worked Penetration (60 Strokes - mm/10)	D 215	280
Dropping Point (°C)	D 2265	>300 (572°F)
Oil Separation (% W loss)	D 1742	No. 2
BASE OIL PROPERTIES		
Viscosity @ 40°C (cSt)	D 445	50
Viscosity @ 100°C (cSt)	D 445	8.4
Viscosity Index	D 2270	144
Specific Gravity	D 1298	n/a
Density @ 20°C (g/ml)	D 1298	n/a
Pour Point (°C)	D 97	n/a
PERFORMANCE TESTING		
Timken OK load (kg)	D 2509	30 (66 lbs)
4 Ball EP - Load Wear Index	D 2596	79.26
4 Ball EP - Weld Point (kgf)	D 2596	500
4 Ball Wear (mm)	D 2266	0.42
Bearing Life (hrs)	D 3527	220
Salt Fog Corrosion (1 mil d.f.t. hr)	D 1264	>300
Low Temperature Torque (Nm @ -40°C)	D 1478	0.785
Bomb Oxidation @ 1000 Hrs	D 942	6.0
Corrosion Prevention	D 1743	Pass

GREASE COMPATIBILITY											
	Thickener	1	2	3	4	5	6	7	8	9	10
1	Ca sulfonate complete		NC	NC	FC	FC	NC	FC	FC	NC	NC
2	Aluminum complex	NC		NC	FC	NC	NC	NC	NC	NC	NC
3	Barium	NC	NC		FC	NC	NC	NC	NC	NC	NC
4	Anhydrous calcium	FC	FC	FC		SC	FC	FC	FC	NC	NC
5	Calcium complex	FC	NC	NC	SC		NC	NC	FC	FC	NC
6	Clay	NC	NC	NC	FC	NC		NC	NC	NC	NC
7	Lithium	FC	NC	NC	FC	NC	NC		FC	NC	SC
8	Lithium complex	FC	NC	NC	FC	FC	NC	FC		NC	SC
9	Polyurea	NC	NC	NC	NC	FC	NC	NC	NC		NC
10	Sodium	NC	NC	NC	NC	NC	NC	SC	SC	NC	

Legend:

FC - Fully compatible

SC - Somewhat compatible: Mixture soften, but remains grease like

NC - Not compatible: Mixtures soften severely and do not remain grease like

All precautions were taken to ensure that the data in this table are correct, however it is recommended that you consult the manufacturer before mixing two different products.