

Lubricant Additive Packages

UK, EUROPE & ROW

Kendal Court
Hurricane Way
Wickford, Essex
SS11 8YB

E: sales@sbzcorporation.com

T: +44 (0) 1268 761504

www.sbzcorporation.com

USA

2981-2991 Hempstead Tpke #1013
Levittown, NY 11756

E: sales@sbzcorporation.com

T: +1 (216) 316 5472

www.sbzcorporation.com

UAE

P1-ELOB Office No: E2-113G-11
Hamriyah Free Zone – Sharjah
Dubai

E: sales@sbzcorporation.com

T: +(971) 5434 93433

www.sbzcorporation.com



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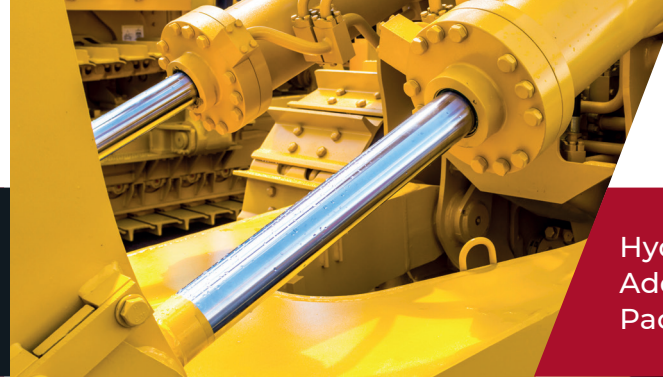
SBZ CORPORATION

The major alternative



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**Engine Oil
Additive
Packages**



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The major alternative

**Hydraulic
Additive
Packages**

SBZ produce **Engine Oil Additive Packages** tailored to offer flexible formulations to meet both higher performance and core specifications.

Other benefits include:


- Designed to protect engines in cars and light or heavy-duty trucks.
- Option to formulate lubricants across a wide range of gasoline and diesel applications.
- Cost-effective approach to producing engine oil products.
- Compatible with readily available base stocks and viscosity modifiers.

SBZ supply zinc-based premium **Hydraulic Additive Packages** offering excellent resistance to oxidation and corrosion, specifically designed for use in today's high-pressure hydraulic systems at very low treat rates.

Other benefits include:

- Enables customers to blend to a range of different performance levels.
- Technology options for premium and mainline applications.
- Cost-effective approach to formulating.





Two and Four Stroke Additive Packages



SBZ's 4T and 2T Additive Packages offer optimised low treat rates for a wide range of viscosity grades built with premium components, delivering energy efficiencies and value.

4T Other benefits include:

- Premium frictional characteristics to support product differentiation for maximum power transfer in performance 4T blends. Offering excellent protection against thermal and oxidative degradation.
- Scooter clutch performance can be targeted with the addition of our top treat friction modifier, giving durable frictional characteristics.

2T Other benefits include:

- SBZ offer additive packages for both air-cooled systems and ashless water-cooled systems.
- Compatible with readily available base stocks and viscosity modifiers. Option to formulate lubricants across a wide range of performance levels.
- High-temperature stability, as well as oil oxidation resistance for motorcycles, go-karts, forestry and garden equipment, outboard motors, and ATVs when our additive packages are formulated with suitable base stocks and tackifiers.



Tractor Additive Packages

SBZ supply **UTTO, STOU and Construction Drive Train** additive packages designed to meet the performance requirements of many Original Equipment Manufacturers (OEMs).

Designed for formulating with various base stocks and VI improvers, a range of viscosity grades can be prepared. Stable friction characteristics impart excellent wet brake performance and minimise the incidence of brake noise chatter.

Other Key Benefits:

- Superior anti-wear and extreme pressure performance to minimise gear wear.
- Protection against rust and corrosion.

The UTTO core technology was developed further to incorporate strong engine oil performance for a Super Tractor Oil Universal (STOU).





**Gear Oil
Additive
Packages**



**Heavy Duty
Transmission
Additive Package**

Our high-quality **Gear Oil Additive Packages** are suitable for use in a variety of base stocks to formulate industrial and automotive gear lubricants, providing exceptional extreme pressure and anti-wear protection.

Other benefits include:

- Excellent oxidation stability.
- Protection against rust and corrosion.
- High level of wear protection.
- Low-temperature performance.



For the most demanding off-road applications in environments such as mining and construction we supply a **Heavy Duty Transmission Additive Package**.

Other Key Benefits:

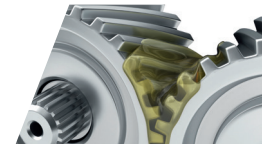
- Premium wear protection for power transmissions, gears and hydraulic systems.
- Superior deposit control.
- Outstanding corrosion and oxidation characteristics.
- Formulated to deliver balanced frictional performance.





Esters

SBZ's Ester base stocks provide excellent oxidative stability, biodegradability, lubricity and solvency.



Extreme Pressure Anti-Wear

Suitable for manufacturing compressor and hydraulic fluids, gear oils and greases to produce high-performance industrial lubricants to protect at high pressure.



PAGs

An extensive array of polyalkylene glycol base stocks are available across a wide viscosity range and solubility characteristics.



Corrosion Inhibitors

Corrosion inhibitors are used to protect against rust and oxidation. We supply both oil and water-soluble corrosion inhibitors.



Antioxidants

SBZ supply high-performance antioxidants with various chemistries optimised for specific lubricant applications.



**Pour Point Depressants/
Viscosity Modifiers**

We supply liquid and solid viscosity modifiers of differing shear stability, thickening properties, and low-temperature characteristics.

Base Oils



Group I

Base Oils typically have high solvency and are used in a variety of applications including hydraulic, bearing lubricants and gear oils.



Group II

Hydrotreated Base Oils typically have high purity levels. The hydrocarbon molecules of group II base oils are saturated, giving them better anti-oxidation properties.



Group III & III+

Hydrocracked Base Oils typically have low volatility and high viscosity indexes.

Speciality Base Oils

We supply a wide range of Speciality Base Oils and niche oil products for various applications. Our technical team also offer tailor made solutions, to meet your requirements and specifications.



Group I Base Oils				
	Kv @ 40°C	Kv @ 100°C	VI	Colour ASTM D1500
SN100	17 - 22 cSt	3.8 - 4.5 cSt	Min. ≥ 95	Max ≤ 1.5
SN150	28 - 35 cSt	4.5 - 5.6 cSt	Min. ≥ 95	Max ≤ 2.0
SN500	88 - 105 cSt	10.0 - 11.5 cSt	Min. ≥ 90	Max ≤ 3.5
SN600	105 - 135 cSt	11.5 - 14.0 cSt	Min. ≥ 90	Max ≤ 4.5
Brightstock	460 - 560 cSt	28 - 34 cSt	Min. ≥ 90	Max ≤ 5.5

Group II Base Oils				
	Kv @ 40°C	Kv @ 100°C	VI	Colour ASTM D1500
65N	9.0 - 10.0 cSt	2.0 - 2.7 cSt	Min. ≥ 95	≤ 0.5
100N	18 - 23 cSt	3.9 - 4.6 cSt	Min. ≥ 100	≤ 0.5
150N	28 - 35 cSt	4.7 - 5.6 cSt	Min. ≥ 100	≤ 0.5
220N	41 - 47 cSt	5.9 - 6.7 cSt	Min. ≥ 95	≤ 0.5
500N	90 - 105 cSt	10 - 12 cSt	Min. ≥ 95	≤ 0.5
600N	96 - 110 cSt	11.6 - 12.9 cSt	Min. ≥ 95	≤ 0.5

Group II and Speciality Base Oils				
	Kv @ 40°C	Kv @ 100°C	VI	Colour ASTM D1500
3cst	9.0-12 cSt	2.5-3.4 cSt	Min. ≥ 105*	≤0.5
4cst	18-22 cSt	3.8-4.6 cSt	Min. ≥ 120	≤0.5
6cst	28-35 cSt	5.7-6.8 cSt	Min. ≥ 120	≤0.5
8cst	42-49 cSt	7.2-8.8 cSt	Min. ≥ 120	≤0.5

Typical properties shown in table. Please request product PDS for specific information.

We offer other options to meet your blend needs. For further information and to discuss, please email: baseoil@sbzcorporation.com