



TriboSintez Oil Additive Products

Comprehensive specifications for industrial applications

Introduction to TriboSintez Additives

TriboSintez offers a comprehensive range of high-performance oil additives designed to enhance the functionality and longevity of various industrial and specialized equipment. Our formulations are engineered with precision, combining advanced synthetic and mineral base stocks with specialized additives to meet the demanding requirements of modern applications.

Product Catalog

Product Code	Viscosity Index (VI)	Base Stock	Application	Operating Temperature (°C)
07-TS-TURB-S	145	Mineral/Group II-III	Industrial Turbines	-20/+250°C
08-TS-COMP-AC	160	Diester/PAO	Rotary Compressors	-15/+200°C
09-TS-MOLD-REL	130	Silicone/Vegetable	Metal Casting	-10/+300°C
10-TS-WIRE-R	155	Mineral/Bitumen	Steel Wire Ropes	-50/+150°C
11-TS-SLIDE-W	140	Mineral/Ester	Linear Bearings	-20/+160°C
12-TS-COOL-CUT	120	Emulsion/Water-Glycol	Metal Cutting	-5/+100°C
13-TS-GREE-LIT	170	Complex Lithium	Heavy-Duty Grease	-30/+200°C
14-TS-VIBR-D	180	Silicone/PAO	Dampening Fluids	-40/+140°C
15-TS-OFFR-T	195	PAO/Ester	Off-Road Suspension	-45/+150°C
16-TS-MARINE-D	150	Mineral/GTL	Marine Diesel	-10/+190°C
17-TS-AGRI-BIO	165	Vegetable Ester	Agri Machinery	-20/+150°C
18-TS-RAIL-F	135	Synthetic/Solid-Lube	Railway Flanges	-40/+180°C
19-TS-TRANS-M	180	PAO/Synthetic	Powershift Trans	-35/+160°C
20-TS-AERO-L	210	Diester/Polyol ester	Aerospace	-70/+200°C

Key Considerations for Selection:

- **Viscosity Index (VI):** A higher VI indicates that the oil's viscosity changes less with temperature fluctuations, crucial for consistent performance across a wide operating range.
- **Base Stock:** The fundamental component of the lubricant. Our diverse range includes mineral, synthetic (PAO, Diester, Polyolester), silicone, vegetable ester, and specialized blends, each offering unique properties for specific applications.
- **Application:** Each additive is formulated for optimal performance in its intended use, whether it's high-temperature turbines, low-temperature aerospace, or extreme pressure applications.
- **Operating Temperature:** The specified temperature range ensures that the additive maintains its integrity and lubricating properties under various thermal conditions.

Technical Insights and Graphics

Molecular Structure and Performance

The molecular structure of our base stocks is critical to their performance. For instance, Polyalphaolefins (PAOs) offer excellent thermal stability and low volatility due to their branched paraffinic structure. Esters, on the other hand, provide superior solvency and film strength, making them ideal for demanding lubrication tasks. The specific arrangement of molecules dictates properties like viscosity, oxidative stability, and compatibility with seals and other materials.

Application-Specific Performance Enhancements

- **07-TS-TURB-S:** Designed for extreme thermal stability and oxidation resistance in industrial turbine systems, ensuring continuous operation and reduced maintenance.
- **08-TS-COMP-AC:** Features excellent lubricity and low deposit formation for rotary compressors, maintaining efficiency and prolonging equipment life.
- **09-TS-MOLD-REL:** A high-temperature release agent for metal casting, preventing adhesion and ensuring smooth part ejection.
- **10-TS-WIRE-R:** Provides superior corrosion protection and lubrication for steel wire ropes in harsh environments.
- **11-TS-SLIDE-W:** Offers smooth, consistent motion for linear bearings, minimizing friction and wear.
- **12-TS-COOL-CUT:** A high-performance metalworking fluid providing excellent cooling and lubrication for cutting operations.
- **13-TS-GREE-LIT:** A robust grease designed for heavy-duty applications, offering exceptional load-carrying capacity and water resistance.
- **14-TS-VIBR-D:** Precisely formulated for vibration dampening, ensuring system stability and noise reduction.

- **15-TS-OFFR-T:** Engineered for extreme temperature ranges and high shock loads in off-road suspension systems.
- **16-TS-MARINE-D:** Optimized for the demanding conditions of marine diesel engines, providing excellent thermal stability and protection.
- **17-TS-AGRI-BIO:** A biodegradable option for agricultural machinery, offering reliable lubrication while minimizing environmental impact.
- **18-TS-RAIL-F:** Specialized lubricant for railway flanges, reducing friction and wear in high-stress rail applications.
- **19-TS-TRANS-M:** High-performance fluid for powershift transmissions, ensuring smooth gear changes and extended component life.
- **20-TS-AERO-L:** Ultra-low temperature lubricant for aerospace applications, maintaining viscosity and performance in extreme cold.

Conclusion and Next Steps

TriboSintez oil additives represent the pinnacle of lubrication technology, engineered for performance, reliability, and efficiency across a diverse spectrum of industries. Our commitment to technical excellence ensures that each product meets rigorous standards. For detailed inquiries, custom formulations, or to discuss specific application requirements, please contact our technical sales team. We are dedicated to providing solutions that optimize your operations and protect your valuable equipment.