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TECHNICAL DATA SHEET

CINNFLUID GB+1 Synthetic Fluids

Overview: Interlube CINNFLUID GB+1 Synthetic Fluids are multi-purpose synthetic USDA H-1 lubricants formulated to give superior component protection in a myriad of applications in production requiring food grade lubricants. They have inherently superior thermal and oxidation stability made even more robust by specially selected anti-oxidants enduring performance exceeding conventional FG lubricants. With very high Viscosity Indexes and very low Pour Points, these products can be used over an extremely wide range of operating temperatures. The synthetic basestocks used ensure unparalleled equipment protection due to the unique “molecular advantages” with benefits such as low volatility, high stability, and anti-wear/ extreme pressure far beyond competitive lubricants. These properties also allow them to function as multi-service products meeting or exceeding many OEM requirements.

CINNFLUID GB+1 Synthetic Fluids are available in 7 ISO grades from an ISO 100 to ISO 1000. The High VI and Low Pour Point are inherent to the specially selected synthetic base oils used in each formulation ensuring excellent performance in even the most severe conditions. They also have superior thermal and oxidation stability that far exceeds more conventional products. All of these benefits add up to significantly longer lubricant and equipment life as well as reduced downtime and maintenance costs.

Operational Benefits: These products offer these competitive advantages to enhance your reliability:

- Superior thermal stability • USDA H-1 (approved for incidental food contact)
- Outstanding oxidation stability • Very low volatility – reduced oil make-up • High Viscosity Index • Completely shear stable • Excellent EP and AW performance • Very low Pour Point
- Wide operating temperature range • Compatible with systems designed for mineral oils

Application: These products can be used in the following (though not exhaustive) list of applications:

- Low-temperature applications • Bearing lubrication (circulation / static) • Chains • High-speed gearboxes • Spindles • Slicers

Typical Industries: These products are commonly used (but not exclusively) in the following industries:

- Food production • Pharmaceutical production • Packaging • Pet food production • Meat processing • Dairy • Snack and candy production

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Technical Properties

Property	Method	CINNFLUID 500 GB+1	CINNFLUID 750 GB+1	CINNFLUID 1200 GB+1	CINNFLUID 1650 GB+1	CINNFLUID 460 GB+1	CINNFLUID 680 GB+1	CINNFLUID 1000 GB+1
Appearance	Visual	Clear Liquid	Clear Liquid	Clear Liquid	Clear Liquid	Clear Liquid	Clear Liquid	Clear Liquid
Color	ASTM D-1800	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Viscosity ISO Grade cSt @ 40°C SUS @ 100°F	ASTM D-445	100 107 500	150 161 750	220 235 1250	320 345 1650	460 460 2130	680 680 3145	1000 1000 4622
Viscosity Index	ASTM D-2270	>150	150	155	>150	>150	>150	230
Pour Point (°F)	ASTM D-97	<-65	-50	-45	<-34	-31	-29	-27
Flash Point (°F)	ASTM D-92	>500	>450	>500	>450	>500	>500	>500
API Gravity	ASTM D-5002	35.0	35.0	34.7	34.7	34.5	34.5	34.7
Specific Gravity	ASTM D-1298	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Timken OK Load (lbs.)	ASTM D-2509	45+	45+	45+	50+	50+	50+	50+
Four Ball Wear (mm)	ASTM D-2783	0.4	0.3	0.3	0.3	0.3	0.3	0.3
FZG Load (Failure Stage)	DIN 51354 / ASTM D-5182	12	12+	12+	12+	12+	12+	12+
Rust Test	ASTM D-665	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Copper Corrosion	ASTM D	1a	1a	1a	1a	1a	1a	1a

The values shown are typical of current production. All of them may vary within tolerable ranges.

CINNFLUID GB+1 Fluids are USDA H-1 type lubricants for use where there could be incidental contact with food products. They meets FDA requirements for lubricants with incidental food contact as noted in 21 CFR 178.3570.

International Manufacturer & Distributor of the World's Finest Lubricants & Cleaning Compounds

