

CINNFLUID AW+1 Synthetic Fluids

Overview: Interlube's CINNFLUID AW+1 Synthetic Fluids are multi-purpose synthetic food grade lubricants specially formulated with very high levels of antioxidants to meet the most demanding requirements of the food processing and pharmaceutical industries. They are suitable for a wide range of general-purpose applications including today's modern high pressure, high speed hydraulic systems. They are formulated with a unique combination of anti-wear agents, mild EP agents, rust inhibitors, and oxidation inhibitors which pass the tough Vickers 2000 psi pump wear test while still maintaining their food grade rating. The oxidation stability and anti-wear performance of these synthetic food grade lubricants is superior to most non-food grade lubricants on the market today. These synthetic lubricants are used in many applications including those calling for non-detergent oils, bearing lubricants, non-EP type gear lubricants, electric motor lubricants, spindle lubricants, chain lubricants, and circulating system lubricants.

CINNFLUID AW+1 Synthetic Fluids are available in 4 ISO grades from an ISO 32 to ISO 150. They are all NSF H1 and are suitable for food machinery applications where there is possibility of incidental contact with food or its packaging materials.

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

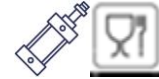
- **Reduced wear – longer equipment life**
- **USDA/ NSF H-1 (approved for incidental food contact)**
- **Superior antioxidant and anti-wear properties**
- **Very low volatility – reduced oil make-up**
- **Lower downtime/ maintenance – more production time**
- **High Viscosity Index**
- **Completely shear stable**
- **Excellent AW performance**
- **Very low Pour Point**
- **Increased performance – lower operating costs**
- **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**
- **Hydraulic systems**
- **Circulation systems**
- **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**


Technical Properties

Property	Method	CINNFLUID 155 AW+1	CINNFLUID 235 AW+1	CINNFLUID 310 AW+1	CINNFLUID 750 AW+1
Appearance	Visual	Clear Liquid	Clear Liquid	Clear Liquid	Clear Liquid
Color	ASTM D-1800	<0.5	<0.5	<0.5	<0.5
Viscosity					
ISO Grade		32	46	68	150
cSt @ 40°C		32	50	66	161
cSt @ 100°C	ASTM D-445	9.2	10	10	19
SUS @ 100°F		155	235	310	750
SUS @ 210°F		46	52	60	96
SAE Grade (approx.)		10W	20	20	40
Viscosity Index	ASTM D-2270	>150	>150	>150	>150
Pour Point (°F)	ASTM D-97	<-40	<-35	<-33	<-27
Flash Point (°F)	ASTM D-92	>460	>490	>500	>500
API Gravity	ASTM D-5002	39.5	38.2	38.1	35.6
Specific Gravity	ASTM D-1298	0.828	0.834	0.834	0.847
Anti-Wear Testing	Vickers 2000	PASS	PASS	PASS	PASS
Four Ball Wear (mm)	ASTM D-2783	<0.4	<0.4	<0.4	<0.4
FZG Load (Failure Stage)	DIN 51354 / ASTM D-5182	12	12+	12+	12+
Rust Test	ASTM D-665	PASS	PASS	PASS	PASS
Copper Corrosion	ASTM D	1a	1a	1a	1a

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



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